

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(MINISTRY OF ROAD TRANSPORT & HIGHWAYS,
GOVT. OF INDIA)

Name of the work: Annual Maintenance of Krishnagiri (from Km 0.000)
to Tindivanam (Km 182.182) section of NH-77 in the
state of Tamil Nadu for a period of 1 (one) year

**Tender No.: NHAI/RO Chennai/Annual Maintenance/Krishnagiri-
Tindivanam/NH-77/2026-27/260**

VOLUME – II

Regional Office – Chennai
National Highways Authority of India
(Ministry of Road, Transport & Highways)
5thFloor,CMRL Building,
Poonamallee High Road,Koyambedu,
Chennai-600 107.

Phone No: 044 – 22252635 Fax No: 044 – 22252636

E mail:rochennai@nhai.org

SECTION: IX

BILL OF QUANTITIES

The Appendix forms part of Bid, Bidders are required to fill up all the blanks in the form of Bid and Appendix thereto)

FINANCIAL BID FORM

To

Regional Officer,
National Highways Authority of India
5th Floor, CMRL Building,
Poonamallee High Road, Koyambedu,
Chennai – 600107.
Phone No: 044 – 22252635
Fax No: 044 – 22252636
E mail: rochennai@nhai.org

Description of Works: Annual Maintenance of Krishnagiri (from Km 0.000)
to Tindivanam (Km 182.182) in the state of Tamil
Nadu for a period of 1 (one) year

Reference letter No.....

Dear Sir,

Having examined the site of works and Bid Documents, comprising Instructions to Bidders, Scope of works, Conditions of Contract, Technical Specifications, Bill of Quantities and schedules for the execution of the above-named works, we, the undersigned offer to execute and complete such works and remedy any defects therein in conformity with the said bid Documents for the sum of Rs. (Rupees.) or such other sum as may be as certain in accordance with the said Bid documents.

2. We undertake, if our Bid is accepted, to commence the work within fifteen (15) days of receipt of the order to commence, and to complete and deliver these sections and whole of the works comprised in the Contract within the period stated in the bid hereto.

3. If our Bid is accepted, we will furnish Performance Security (ies) in the form of a Bank Guarantee to be jointly and severally bound on us, in accordance with the Conditions of Contract.

4. We agree to abide by this Bid for the period of One Hundred & Twenty (120) days from the last date fixed for Bid Submission and it shall remain binding upon us and may be

Name of the Work: Annual Maintenance of Chennai Bypass from Km 0.000 to Km 32.600 in the state of
Tamil Nadu for a period of 1 (one) year

accepted at any time before the expiry of that period.

5. We confirm our agreement to treat the Bid documents and other records connected with the works as secret and confidential documents and shall not communicate information contained therein to any person other than the person authorized by the Employer or use such information in any manner prejudicial to the safety and integrity of the works.

6. Unless and until an agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us, but without prejudice to your right to withdraw such acceptance without assigning any reasons thereof.

7. We understand that you are not bound to accept the lowest or any bid you may receive.

Dated thisday of20.....

Signature in the capacity of duly authorized

** To sign Bid for and on behalf of

.....

(in block capital letters)

Address:

.....

Signature of Witness :

Name of Witness :

Address of Witness :

.....

** Certified copy of Power of Attorney / authorization for signature shall be furnished by the Bidder.

Bill of Quantities

9.0. Preamble

- 9.01. The Bill of quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract, Scope of Work and Specifications.
- 9.02. The quantities given in the Bill of quantities are estimated quantities. The basis of payment will be actual quantities of work indented and carried out and valued at the rates and prices tendered in the priced Bills of quantities, where applicable and otherwise at such rates and prices as the Engineer may fix within the terms of Contract.
- 9.03. The rates and prices tendered in the priced Bill of Quantities shall include all equipment, plant, tools, spares, Labour, supervision, overheads, consumables, materials, erection, maintenance, testing of input material delivered, profit, taxes and duties together with all general risks, liabilities and obligations set out and implied in the Contract and other incidentals to comply with the requirements of technical specifications and scope of work.
- 9.04. The rates and prices shall be quoted entirely in Indian Currency.
- 9.05. A rate or price shall be treated as a single rate as Tender Premium % above/ below on the amount in General Abstract.
- 9.06. The whole cost of complying with the provisions of the contract shall be included in the items provided in the priced Bill of Quantities and where no rates are provided the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.
- 9.07. The contractor shall keep the entire carriage way neat and clean throughout the contract period. The contractor shall maintain guardrails, railings, crash barriers, road furniture etc. in good condition by cleaning them frequently as advised / required by using suitable detergents/chemicals.
- The staff of the contractor shall wear safety jackets, shoes, helmets etc. while on duty and any violation will attract a fine of Rs.5,000/- for each incident.
 - Failure to erect safety signage or trying to carry out the works without proper precautions/safety measures as required will attract a fine of Rs.5,000/- for each incident.

- 9.08. The Tendered rate for incident Management shall include all equipment, labor, material, consumable, tools, spares and other incidentals to comply with the requirement of the scope of the work and technical specification.
- 9.09. General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. Reference to the relevant sections of the bidding document shall be made before entering rates or prices against each item in the Bill of Quantities.

Description of Work: Annual Maintenance of Chennai Bypass from Km 0.000 to Km 32.600 in the state of Tamil Nadu for a period of 1 (one) year

ABSTRACT OF COST

S. No.	Description	Amount (excl. GST)
1	Grand Total of BOQ	Rs.15,71,60,501/- (Rupees Fifteen Crore Seventy-One Lakhs Sixty Thousand Five Hundred and Eight Only)
	I / We agree to execute the above works on the tender premium% above / below the Grand Total of the Project Cost as given above.	(In words) percent Above / Below

Annual Maintenance of Krishnagiri (from Km 0.000) to Tindivanam (Km 182.182) in the state of Tamil Nadu for a period of 1 (one) year

BOQ	Description of item	Unit	Qty	Rate	Amount
A.ROUTINE MAINTENANCE (CLEANING OF CARRIAGEWAY & REMOVAL OF RANK OF VEGETATION FOR ROAD & STRUCTURE)					
1	Removal of Rank Vegetation: (considered for twice in a year)	Km	1310400.00	16.00	2,09,66,400
2	Drain Cleaning by opening cover slab (Twice in a year)	Rmt	19730.00	391.00	77,14,430
3	Cleaning of Cross Drainage Structures				
a	Major Bridges (Twice in a year)	Nos	8.00	22353.00	178824.00
b	Minor Bridges (Twice in a year)	Nos	54.00	22353.00	1207062.00
c	Vehicular Under pass (Twice in a year)	Nos	12.00	22353.00	268236.00
d	ROB (Twice in a year)	Nos	4.00	22353.00	89412.00
e	Slab/Box type Culverts (Twice in a year)	Nos	250.00	5776.00	1444000.00
f	Pipe culvert (Twice in a year)	Nos	476.00	5776.00	2749376.00
4	Cleaning of Roads: From shoulder to shoulder including MCW, Service Road, Bus Bay & bus shelters Cleaning, median and cleaning of all road furniture's such as PGR, Metal Beam Crash Barrier, Sign Boards, Delineators, Median Markers, etc.	Km	1272.00	8006.00	1,01,83,632
5	Lighting Maintenance: Highmast, Single arm poles,Solar and electrical blinkers.	Month	12.00	226176.00	27,14,112
6	Earthen Shoulder Maintenance: 20% of the length for Stripping of excess soil for 1 year	Sqm	72873.00	54.00	39,35,142

7	Earthen Shoulder Maintenance: 20% of the length for filling with fresh soil for 1 year	Sqm	72873.00	213.00	1,55,21,949
8	Kilometre Stone & HM Stone:				
a	5th KM Stone	Nos	15.00	6302.00	94,530
b	KM Stone	Nos	58.00	3680.00	2,13,440
c	HM Stone	Nos	291.00	1041.00	3,02,931
9	Painting & Lettering on Kilometre Stone & HM Stone:				
a	5th KM Stone	Nos	15.00	666.00	9,990
b	KM Stone	Nos	58.00	298.00	17,284
c	HM Stone	Nos	291.00	49.00	14,259
10	Painting Two Coats on Concrete surface for Kerb, All Structures & Concrete Rail	Sqm	17340.00	176.00	30,51,840
11	Replacement of W-metal beam crash barrier				
a	Beam	Rmt	2000.00	1111.00	22,22,000
b	Post	Nos	1000.00	3589.00	35,89,000
c	Channels or brackets	Nos	1000.00	585.00	5,85,000
12	Using RCC M20 for Restoration of damaged kerb, structures parapet wall	Cum	57.00	8306.00	4,73,442
13	Using PCC M15 for Restoration of damaged Sign board foundation	Cum	17.00	8106.00	1,37,802
14	Dismantling kerb stone	Rmt	200.00	30.00	6,000
15	Plastering for damaged structure parapet wall, Bus shelter & Kerb - Cement mortar 1:3 (1 cement: 3 sand)	Sqm	113.00	218.00	24,634
16	Supply of labour for Grass cutting works on Shoulder Side and MBCB Side	Nos	1080.00	880.00	9,50,400
Total A					7,86,65,127

B. ROAD SAFETY IMPROVEMENTS (ROAD PROPERTY MANAGEMENT AND OTHER MAINTENANCE & TRAFFIC SAFETY ITEMS. DELINEATORS, MBCB,etc..)					
1	<i>Supply and Fixing of Solar Blinkers:</i> for accident prone areas if required	Nos	50.00	28342.75	14,17,138
2	Excavation in soil for improvement of roads	Cum	1170.00	142.00	1,66,140
3	WMM	Cum	781.00	3501.00	27,34,281
4	Providing of prime coat	Sqm	3000.00	84.00	2,52,000
5	DBM	Cum	300.00	11056.00	33,16,800
6	Tack Coat for BC	Sqm	3000.00	15.00	45,000
7	Bituminous Concrete	Cum	120.00	12695.00	15,23,400
8	Providing and erecting a "W" metal beam crash barrier for Improvements of Road	Rmt	3250.00	4696.00	1,52,62,000
9	Supplying and installation of delineators	Nos	400.00	1270.00	5,08,000
10	Sign Boards				
a	Informatory Sign				
b	Chevron Sign -sign 800x600	Nos	20.00	9643.00	1,92,860
c	Cautionary -Triangular 900 mm side	Nos	20.00	8904.00	1,78,080
d	Mandatory- 900 mm dia Circular sign	Nos	20.00	10620.00	2,12,400
e	Stop sign - 90cm High Octogonal	Nos	20.00	11700.00	2,34,000
f	Village Name Board	Sqm	24.00	14221.00	3,41,304
11	Road Studs	Nos	11687.00	232.00	27,11,384
12	Retro - Reflective Hazard Marker	Nos	226.00	4000.00	9,04,000
13	Retro - Reflective Stickers	Nos	1625.00	21.40	34,775

14	<i>Thermoplastic Road Marking:</i>				
a	with Glass Beads	Sqm	1422.00	628.72	8,94,045
b	Without Glass Beads	Sqm	4266.00	599.00	25,55,334
15	Provide and fixing Tubular markers 700 mm ht (mini.) and having minimum dia. of 75mm. Tubular Marker shall be made up of polyurethane and flexible in nature. The tubular marker shall be confirming to IRC SP 55, to divide opposing lanes traffic, or to divide vehicular traffic lanes when two or more lanes of moving vehicular traffic are kept operating in the same direction, and to delineate the edge of a pavement drop-off where space limitations do not allow the use of larger devices. A tubular marker shall be attached to the pavement such as to display the minimum 50mm width of 2 no. reflective bands to the approaching road users. The reflective bands shall be provided with white colour retro reflective sheeting Type XI as per IRC: 67	Nos	6000.00	850.00	51,00,000
16	Median Marker	Nos	1837	287.00	5,27,219
16	RCC Covered Drain				
a	Excavation	Cum	2664.75	160.00	4,26,360
b	M15 PCC	Cum	123.75	8106.00	10,03,118
c	Raft - M25 RCC	Cum	285.00	9103.00	25,94,355
d	Wall - M25 RCC	Cum	450.00	9103.00	40,96,350
e	Slab - M25 RCC	Cum	180.00	9103.00	16,38,540
f	Reinforcement	MT	61.00	76131.00	46,43,991

g	Weep holes	Nos	100.00	429.00	42,900
Total B					5,35,55,774
C	OTHER MISCELLANEOUS ITEMS				
1	Machineries				
a	Excavator 1.1 cum	Hours	480.00	3946.00	18,94,080
b	Tipper 5 Cum Capacity	Hours	720.00	2235.00	16,09,200
c	JCB	Hours	480.00	2327.00	11,16,960
d	Dewatering Pump	Hours	720.00	324.00	2,33,280
e	Tree cutting saw machine	Hours	480.00	266.00	1,27,680
Total C					49,81,200
D	Incident Management				
	Removing all types of broken down/vehicles which have met with accidents from the carriageway and toeing the same to proper locations i.e. nearest police stations or some suitable location by using 15 tonne or of more capacity pick and carry crane, as per requirement of the incident and as per clause 6.4 Scope of Work and as per 6.8 of 'Performance Standard' of scope of work. The crane shall be equipped with precise vehicle tracking system (VTS) based on global provision Systems (GPS) and GSM/GPRMS technology. The system shall include micro, live, real time tracking webbased software through which use of GIS maps and transit, stopping idle, over speed reports of vehicle shall be obtained conforming to the latest guideline / Policy of NHAI.	Each vehicle per Month	3 x 12.00	2,40,000.00	86,40,000
	Providing Route Patrol vehicle as per clause 6.4 of Scope of work and as per clause 6.8 and 6.8.3 of performance standard of scope of work. The route patrol vehicle shall be equipped with precise vehicle tracking system (VTS) based on global provision Systems (GPS) and GSM/GPRMS technology. The system shall include micro, live, real time tracking webbased software through which use of GIS maps and	Each vehicle per Month	3 x 12.00	3,00,000.00	1,08,00,000

	transit, stopping idle, over speed reports of vehicle shall be obtained. Patrol vehicle shall be in conforming to NHAI/Policy Guidelines/Strengthening the Incident Management Services/2018 Policy No.12.19 dated 20.03.2018 in addition to Policy Circular 12.36/2024/ dated 12th December 2024 or if any latest.				
	Additional 1000km for patrol	Each vehicle per Month	3 x 12.00	14.40x1000	5,18,400
	Total D				1,99,58,400
Note: (Note: The amount will be released only after submission of GPS based data for the items mentioned under D (i.e. Incident Management))					
	Grand Total				15,71,60,500.50