



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

**Rectification work of the distressed stretches at Risk and Cost of the Contractor of
Completion of balance work of 4 laning of Panikoili- Rimuli section of NH 215 (New NH-20)
from 0.000 km to 166.000 km (Design chainage from 0.000 km to 166.173 km) on single
percentage item rate contract in the State of Odisha.**

VOLUME- II

**National Highways Authority of India
(Ministry of Road, Transport & Highways)
Regional Office,
Odisha**

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,

**General Manager (Tech),
Regional Office,
Odisha**

DESCRIPTION OF WORKS: BID FOR **Rectification work of the distressed stretches at Risk and Cost of the Contractor of Completion of balance work of 4 laning of Panikoili- Rimuli section of NH 215 (New NH-20) from 0.000 km to 166.000 km (Design chainage from 0.000 km to 166.173 km) on single percentage item rate contract in the State of Odisha.**

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 ascertained in accordance with the said Bid documents.

2. We undertake, if our Bid is accepted, to commence the work within Two (2) days of receipt of the order to commence, and to complete and deliver the 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 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 this _____ day of _____ 20---

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

9.00 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 with in 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 (excluding GST) 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 entered 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 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 Deleted

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.

Bill of Quantity

Sl no	Item No.	Ref. to MoRTH Spec.	Description of Items	Unit	Estimated Quantity	Rate	Amount
1	8.35	804	Providing and fixing of Reflective Pavement Markers (RRPM), f.e. road studs shall be prismatic retro-reflective type conforming to ASTM D-4280. The Plastic body of RPM/road stud shall be moulded from ASA (Acrylic Styrene Acrylonitrile) or HIPS (Hi-Impact Polystyrene) or Acrylonitrile Butadiene Styrene (ABS). The marker height shall not be less than 10mm and shall not exceed 20mm and its width shall not exceed 130mm. The markers shall support a load of 13,635 kg tested in accordance with ASTM D 4280. The Reflective panels shall consist of number of lenses containing single or dual prismatic cubes capable of providing total internal reflection of the light entering the lens face. Lenses shall be moulded of methyl methacrylate conforming to ASTM D 788 or equivalent. The optical performance of road studs shall be confirming to clause 804.4 of MORTH specifications.	No	14051	224.00	31,47,404.09
2	8.13	803	Providing and Laying hot applied thermoplastic road marking strip on Bituminous Surface of specified shade/ colour of 2.5 mm thick including Type 1 beads (Refer MORTH Specification Clause 803.4.2) which are a constituent of the basic thermoplastic compound vide Table 800-9 (MORTH Specification) and Type 2 beads are those which are to be sprayed on the surface vide Clause 803.6.4 (MORTH Specification). The glass beads shall have a minimum reflectivity index of 1.5. The glass bead shall be 250gm/sqm. The thermoplastic road marking material thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35. Pavement Marking Performance such as Day/Night visibility, Dry/Wet visibility and skid resistance shall be confirming to clause 15.5 of IRC 35. The finished surface to be level, uniform, and free from streaks and holes complete as per direction of	Sqm	17829.33	600.50	1,07,06,511.46

			Engineer-in-charge and in accordance with applicable specifications. (Refer MORTH Clause 803 for technical Specification and Performance for IRC 35:2015). Recommended Use of specialized Road Marking Primer, based on surface conditions.				
3			Milling of existing bituminous layer depth of 50 mm as per the directions of Engineer	Sqm	301674.75	63.00	1,90,05,509.25
4	3.18	408	Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table no 300-2	Cum	9297.00	372.00	34,58,484.00
5	4.01(B)	401	Construction of granular sub-base by providing close graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with front end loader at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401.	Cum	357.80	3249.00	11,62,492.20
6	414	406	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	Cum	687.50	3855.00	26,50,312.50
7	5.04	505	Providing and laying dense graded bituminous macadam with higher capacity batch type HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 4.0 percent by weight of total mix filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled vibratory and tandem roller to achieve the desired compaction as per MORTH specification clause No. 505 complete in all respects.	Cum	2757.23	12373.00	3,41,15,175.86
8	5.05	507	Providing and laying bituminous concrete with higher capacity batch type HMP using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 percent by weight of total mix filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled	Cum	11239.40	14462.00	16,25,44,202.80

[illegible]

DESCRIPTION OF WORK: Rectification work of the distressed stretches at Risk and Cost of the Contractor of *Completion of balance work of 4 laning of Panikoili- Rimuli section of NH 215 (New NH-20) from 0.000 km to 166.000 km (Design chainage from 0.000 km to 166.173 km) on single percentage item rate contract in the State of Odisha.*

ABSTRACT OF COST

Sl.No.	Description	Amount (Including labour cess and Excluding GST)
1	Grand Total of BOQ	Rs. 24,17,19,396/- (Rupees Twenty Four Crore Seventeen Lakh Nineteen Thousand Three Hundred Ninety Six 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