



**Public Works Department  
[Government of Tripura]**

**Ministry of Development of North Eastern Region  
[Government of India]**

**NORTHEASTERN STATE ROADS INVESTMENT PROGRAM  
(NESRIP)**

**Country: INDIA**

**ADB Loan No-3073**

**North Eastern States Roads Investment Program (Project-2)**

**Completion of balance work of Improvement and  
Up-gradation of road section of Udaipur to Melaghar  
(TR02)**

**(Tranche-2 road in the State of Tripura)  
CONTRACT NO. TR-CW1.**

**BIDDING DOCUMENT  
VOLUME 2  
BILL OF QUANTITIES**

**Contains**

**Section 4(b) - Letter of Price Bid & Bill of Quantities**

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Bid.

**[September'2020]**

**Project Director, Project Implementation Unit(PIU),**

**ADB Project,**

**O/o of the Superintending Engineer, 3<sup>rd</sup> Circle, PWD(R&B)**

**Udaipur, Gomati District, Pin: -799120, TRIPURA, INDIA**

## Preface

This Bidding Document for the Procurement of Works is based on the Standard Bidding Document (SBD) for the Procurement of Works (SBD Works) issued by the Asian Development Bank. The Bidding Document consists of three parts, broken up into nine sections and are contained in four volumes as shown below.

This Volume 2 contains Section 4 (a) of Part I of the Bidding Document as highlighted below.

### **PART I BIDDING PROCEDURES (VOLUME - 1)**

#### **Section 1 -Instructions to Bidders (ITB)**

This section specifies the procedures to be followed by Bidders in the preparation and submission of their Bids. Information is also provided on the submission, opening, and evaluation of bids and on the award of contract.

#### **Section 2 -Bid Data Sheet (BDS)**

This section consists of provisions that are specific to this procurement and supplement the information or requirements included in Section 1 - Instructions to Bidders.

#### **Section 3 -Evaluation and Qualification Criteria (EQC)**

This Section contains the criteria to determine the lowest evaluated bid and the qualifications of the Bidder to perform the contract.

#### **Section 4(a) -Bidding Forms (BDF)**

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Bid.

#### **(VOLUME 2)**

#### **Section 4(b) - Letter of Price Bid & Bill of Quantities**

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Bid.

#### **(VOLUME 1)**

#### **Section 5 -Eligible Countries (ELC) 1**

This section contains the list of eligible countries.

### **PART II REQUIREMENTS**

#### **(VOLUME 3)**

#### **Section 6(a) -Employer's Requirements (ERQ)**

This Section contains the Specification and supplementary information that describe the Works to be procured.

#### **(VOLUME 4)**

#### **Section 6 (b) -Employer's Requirements (ERQ)**

This Section contains the Drawings that describe the Works to be procured.

### **PART III CONDITIONS OF CONTRACT AND CONTRACT FORMS (VOLUME - 1)**

#### **Section 7 -General Conditions of Contract (GCC)**

The General Conditions of Contract are based on FIDIC and are subject to the variations and additions set out in Section 8 (Particular Conditions of Contract).

#### **Section 8 -Particular Conditions of Contract (PCC)**

This Section contains provisions which are specific to this contract and which modify or supplement the GCC. Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

#### **Section 9 -Contract Forms (COF)1**

This Section contains forms, which, once completed, will form part of the Contract. The forms for Performance Security and Advance Payment Security, when required, shall only be completed by the successful Bidder after contract award.

**ABBREVIATIONS**

|                                      |   |  |
|--------------------------------------|---|--|
| BC                                   | : | Bituminous Concrete  |
| BIS                                  | : | Bureau of Indian Standards   |
| CBR                                  | : | California Bearing Ratio   |
| cc, cm <sup>3</sup> , or cu.cm       | : | Cubic centimeter   |
| cfm                                  | : | Cubic feet per minute  |
| Cm                                   | : | Centimeter   |
| Cum km                               | : | Cubic meter kilometer  |
| DBM                                  | : | Dense Graded Bituminous Macadam  |
| Dia or dia                           | : | Diameter   |
| Eg                                   | : | example  |
| Eqpt.hrs                             | : | Equipment hours  |
| FE Loader                            | : | Front End Loader   |
| GSB                                  | : | Granular Sub-Base  |
| hect or ha                           | : | Hectare  |
| HMP                                  | : | Hot Mix Plant  |
| HP                                   | : | Hume Pipe  |
| hr.                                  | : | Hours  |
| i.e.                                 | : | That is  |
| IRC                                  | : | Indian Roads Congress  |
| IS                                   | : | Indian Standard  |
| KG or kg or Kg                       | : | Kilogram   |
| Kl                                   | : | Kilolitre  |
| KM or km                             | : | Kilometer  |
| l                                    | : | liter  |
| Lm or LM or lm or Linm               | : | Linear meter   |
| LS or L.S or sum                     | : | Lump Sum   |
| m                                    | : | Metre  |
| m <sup>2</sup> or sq.m or sqm or Sqm | : | Square metre   |
| m <sup>3</sup> or cum or cu.m or Cum | : | Cubic metre  |
| Max                                  | : | Maximum  |
| Min                                  | : | Minimum  |
| Mm,mm                                | : | Millimetre   |
| Month                                | : | Calendar month   |
| MORT & H                             | : | Ministry of Road Transport and Highways  |
| MOST Specification(s)                | : | Specifications for Road and Bridge Works (latest revision)<br>issued by the Ministry of Surface Transport (Roads Wing),<br>Government of India, 2001 |
| MS                                   | : | Mild Steel   |
| mt, MT or tonne                      | : | Metric Tonne   |
| NB                                   | : | Nominal Bore   |
| Nr. of prints                        | : | Number of Prints   |
| Nr. or No or Nos.                    | : | Number(s)  |
| OMC                                  | : | Optimum Moisture Content   |
| P.O.L. or POL                        | : | Petrol, Oil and Lubricants   |
| PCC                                  | : | Plain Cement Concrete  |
| Prov                                 | : | Provisional  |
| PS                                   | : | Provisional Sum  |
| q                                    | : | Quintal  |
| RCC                                  | : | Reinforced Cement Concrete   |
| RM                                   | : | Running Meter  |
| RR                                   | : | Road Roller  |
| Rs or RS                             | : | Indian Rupees  |
| t.km                                 | : | tonne kilometer  |
| TMT                                  | : | Thermo Mechanically Treated  |
| Veh.Month                            | : | Vehicle month  |
| WMM                                  | : | Wet Mix Macadam  |

**PREAMBLE**

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

- 1 Description of items is given briefly and linked with the relevant clauses & sections of MORT & H Specifications for Road and Bridge Works (fourth version) which may be referred to for detailed description, provisions and interpretation.
- 2 The Bill of Quantities shall be read in conjunction with the Instruction to Bidders, Conditions of Contract, Technical Specifications, Drawings, Schedules, Annexures and Addenda.
- 3 The quantities given in the Bill of Quantities are estimated and provisional and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices bid in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
- 4 As the bid is for balance works, cross sections and plan & profile need to be read in conjunction with the strip chart provided in drawings in Volume-4 of bid documents.
- 5 Due to mechanization of construction work, the BOQ items are relevant to use of plant and equipment. However, manual means are not ruled out in case, where work areas may be inaccessible.
- 6 The contractor's rates, quoted for various item of works, shall be inclusive of overhead charges, which include all elements such as his site accommodation, setting up plant, access road, water supply, electricity and general site arrangements, expenditures on contractor's office, site supervision, documentation, and "as built" drawings, mobilization/demobilization of resources, laboratory equipments, quality controls, laboratory testing, tools & plants, survey instruments, setting out of works including verification of centre line, dimensions, trial pits, bore holes, watch & ward, traffic management during construction, expenditure of safeguarding environment, sundries, finance, VAT/sales/turnover tax/GST, work insurance, compensation etc. and all expenditures incidental to works.
- 7 The contractor's rates, quoted for various item of works, shall be inclusive of all charges as stated in Preamble no. 6 above and other charges together with all general risks, liabilities and obligations set out or implied in the Contract and including remedy of any defects during the Defects Liability Period.
- 8 The rates and prices shall be quoted entirely in Indian Rupee Currency.
- 9 The rate or price shall be entered both in figures and words against those items in the Bill of Quantities, for which the quantities are given. The cost of items against which the Contractor has failed to enter a rate or price shall be deemed to have been covered by other rates and prices entered in the Bill of Quantities. However, rates are not to be quoted against those items for which quantities are not given.
- 10 The whole cost of complying with the provisions of the Contract shall be deemed to have been included in the items provided in the priced Bill of Quantities, and when no items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related items of the work.
- 11 Errors will be corrected by the Employer for any arithmetical errors pursuant to Clause 33 of the Instruction to Bidder, Section 1, Volume-I.
- 12 The Contractor shall not order materials directly against the quantities mentioned in BOQ and shall only base orders on the final working drawing and/or other instructions issued during the course of the Contract, after giving due consideration of the probable reuse of materials available at site and other dismantled materials that may accrue during execution of work.

**PREAMBLE**

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

- 13 The Clauses of the preamble shall apply to any additional or varied work which the Contractor may be required to execute under the Contract except specifically prescribed therein.
- 14 The bidder shall be deemed to have inspected and examined the nature and extent of partly completed works as described in the bidding document including the restoration of existing defects/damaged works.
- 15 Existing top layers with significant damages, as directed by the Engineer, shall be got repaired/restored and measured under respective BOQ items. However, where the existing layers are not damaged expenses for required clearing and preparation of bed, to receive next layer, not covered in any of the BOQ item, shall be deemed to be incidental.
- 16 While starting the work, efforts required for removal/clearing of road blocks/materials at various locations shall be incidental to the work and no extra payment shall be considered for it.
- 17 Before handing over the completed work, the Contractor will ensure that the ROW of the complete project stretch i.e. from Ch. 0+000 to Ch. 20+300 is clear of all the debris and fairly level. This will be incidental to the work and no additional payment will be made.
- 18 The specifications of materials shall be governed by section 1000 of MORT & H Specifications for Road & Bridge work, Fourth Revision and stated elsewhere.
- 19 Labour deployment shall be governed by applicable labour laws prevailing in the State where the project lies.
- 20 Contractor will make his own arrangement for borrowing earth, aggregates and all other construction materials and shall be responsible for royalties that become payable to the state/owners
- 21 The dismantled materials shall become the property of contractor for which he should consider or include the salvage value in the rates quoted.
- 22 The source of materials and samples are required to be approved by the Engineer before the start of any work. However, the contractor shall be solely responsible for quality of materials as per specifications.
- 23 The rates of items include cost of testing of soil, aggregates, materials and works.
- 24 The approved earth obtained from excavation for road work/ foundations for structures has been considered to be backfilled and balance utilized for road work.
- 25 Grade of cement shall be as per mix design requirement.
- 26 Only 60/70 grade bitumen will be used in all bituminous work.
- 27 It will not be obligatory on the part of the Engineer to provide any assistance to obtaining lease/permits for extraction of minor minerals. The contractor will not be entitled to any excuse whatsoever on account of any delays in obtaining minor minerals to be used on the works.
- 28 The work of shoulders must precede the work of sub-base and base courses and succeed the bituminous courses.
- 29 Only Cement of required specifications at the rate of 2% by weight of total aggregate will be used as filler for bituminous work. Lime will not be used as filler

**PREAMBLE**

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

- 30 Dismantling or shifting of utilities will be done by the concerned department under the supervision of the Engineer. If, however, certain minor utilities / services are affected during execution of works, contractor shall immediately inform the Engineer and carry out corrective measures, under the supervision of the concerned department with prior information to the users.
- 31 For narrow and restricted areas, plate compactors shall be used for compaction to achieve the desired density.
- 32 Latest I.R.C codes shall be referred to during execution.
- 33 All environmental safeguard measures are incidental to the work and nothing extra, whatsoever, on this account is payable to the contractor.
- 34 The contractor shall ensure execution of work in accordance with precautions for environmental safeguards as per MORT&H Specifications Clause no. 111 and Annexure A to Clause 501" Protection of the Environment" at "construction and operation stage".
- 35 The compliance of the safeguard details in the above Appendices is mandatory and is incidental to the work and nothing extra on this account is payable.

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

Package-TR CW1

Length of Project Road: 20.300 Km

**Summary of Bill Item**

| Sl. No | Description  | Amount (Rs. In figures)          |
|--------|--|----------------------------------|
|        | <b>PART A " Contract Estimate"</b>   |                                  |
| 1      | GENERAL PROVISIONS   |                                  |
| 2      | SITE CLEARANCE   |                                  |
| 3      | EARTH WORKS  |                                  |
| 4      | SUB-BASE, BASE-COURSE (Non Bituminous)                                     |                                  |
| 5      | PAVEMENT (Bituminous)  |                                  |
| 6      | CROSS DRAINAGE STRUCTURES (DRAINS, PROTECTION WORKS, BRIDGES AND CULVERTS) |                                  |
| 7      | TRAFFIC SIGNS, MARKINGS AND ROAD APPURTENANCES                             |                                  |
| 8      | MISCELLANEOUS  |                                  |
| 9      | ENVIRONMENT MANAGEMENT PLAN  |                                  |
| 10     | DAY WORK - PROVISIONAL SUMS  |                                  |
|        | Total For Package-TR CW1   |                                  |
|        | Modifications, if any:   |                                  |
|        | Net Total  |                                  |
|        | Discount offered after negotiations:                                       |                                  |
|        | Net Total For Package-TR CW1   |                                  |
| 11     | Provisional Sum  | Rs.2,000000.00(Rupees two crore) |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

Page Collection Sheet

| Bill No                         | Description  | Total Bid Price (Rupees in figures) |
|---------------------------------|--|-------------------------------------|
| 1                               | GENERAL PROVISIONS   |                                     |
|                                 | Page No. 9   |                                     |
|                                 | <b>Total of Bill Item no. 1</b>  |                                     |
| 2                               | SITE CLEARANCE   |                                     |
|                                 | Page No. 10  |                                     |
|                                 | Page No. 11  |                                     |
|                                 | <b>Total of Bill Item no. 2</b>  |                                     |
| 3                               | EARTH WORKS  |                                     |
|                                 | Page No. 12  |                                     |
|                                 | <b>Total of Bill Item no. 3</b>  |                                     |
| 4                               | SUB-BASE, BASE-COURSE (Non Bituminous)   |                                     |
|                                 | Page No. 13  |                                     |
|                                 | <b>Total of Bill Item no. 4</b>  |                                     |
| 5                               | PAVEMENT (Bituminous)  |                                     |
|                                 | Page No. 14  |                                     |
|                                 | <b>Total of Bill Item no. 5</b>  |                                     |
| 6                               | CROSS DRAINAGE STRUCTURES (DRAINS,<br>PROTECTION WORKS, BRIDGES AND<br>CULVERTS) |                                     |
|                                 | Page No. 15  |                                     |
|                                 | Page No. 16  |                                     |
|                                 | Page No. 17  |                                     |
|                                 | <b>Total of Bill Item no. 6</b>  |                                     |
| 7                               | TRAFFIC SIGNS, MARKINGS AND ROAD<br>APPURTENANCES                                |                                     |
|                                 | Page No. 18  |                                     |
|                                 | Page No. 19  |                                     |
|                                 | Page No. 20  |                                     |
|                                 | Page No. 21  |                                     |
| <b>Total of Bill Item no. 7</b> |  |                                     |
| 8                               | MISCELLANEOUS  |                                     |
|                                 | Page No. 22  |                                     |
|                                 | <b>Total of Bill Item no. 8</b>  |                                     |
| 9                               | ENVIRONMENT MANAGEMENT PLAN  |                                     |
|                                 | Page No. 23  |                                     |
|                                 | <b>Total of Bill Item no. 9</b>  |                                     |
| 10                              | DAY WORK - PROVISIONAL SUMS  |                                     |
|                                 | Page No. 24  |                                     |
|                                 | Page No. 25  |                                     |
|                                 | <b>Total of Bill Item no. 10</b>   |                                     |
| 11                              | Provisional Sum  | Rs.2,0000000.00(Rupees two crore)   |



Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |  |             |                    |                  |          |              |
|--|--|-------------|--------------------|------------------|----------|--------------|
| Item No.   | Description  | Unit        | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |  |             |                    | In Figures       | In Words | In Figures   |
| <b>Bill No. 1 - GENERAL PROVISIONS</b>                                 |  |             |                    |                  |          |              |
| 1.01   | a) Construction and providing 100 Sqm base office for the Engineer and his staff complete as per Technical Specification Clause 120, along with all furniture etc. detailed therein. | each        | 0                  |                  |          |              |
|  | b) Maintenance of base office for the Engineer & its furniture & equipment as per Technical Specification clause 120   | Month       | 6                  |                  |          |              |
| 1.02   | Communications   |             |                    |                  |          |              |
|  | a) Providing and commissioning cellular phones of standard make such as "Nokia" or other reputed make for Engineer complete as per Technical Specification Clause 123                | Each        | 6                  |                  |          |              |
|  | b) Maintaining cellular phones for the Engineer complete as per Technical Specification Clause 123   | Phone Month | 6                  |                  |          |              |
|  | c) Providing, Operating and maintaining fax machine for the Engineer, including operable telephone line as per Technical Specifications Clause 123.                                  | Month       | 18                 |                  |          |              |
| 1.03   | Providing and maintaining vehicles for the Engineer including driver, POL etc. complete as per Technical Specification Clause 124  |             |                    |                  |          |              |
|  | a) Saloon Car  | Veh. Month  | 0                  |                  |          |              |
|  | b) Hard top 4 wheel drive  | Veh. Month  | 12                 |                  |          |              |
| 1.04   | Supply of color record photographs with CD and color prints in size (4" x 6") mounted in standard size album in two copies each as per Technical Specification clause 125            | No.         | 1,000              |                  |          |              |
| 1.05   | Supply of additional prints (8" x 10") of colored photographs as per Technical Specification Clause 125  | No.         | 500                |                  |          |              |
| 1.06   | Supply of edited master video cassettes and digitized CD ROMS with four copies thereof each as per Technical Specification Clause 126.   | No.         | 10                 |                  |          |              |
| <b>BILL No 1 Page Total (carried forward to Page collection sheet)</b> |  |             |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |  |         |                    |                  |          |              |
|--|--|---------|--------------------|------------------|----------|--------------|
| Item No.   | Description  | Unit    | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |  |         |                    | In Figures       | In Words | In Figures   |
| <b>Bill No. 2- SITE CLEARANCE</b>                                      |  |         |                    |                  |          |              |
| 2.01   | Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all leads and lifts and back earth filling in the depressions/pits as per relevant clauses of Technical Specification Section 200.   |         |                    |                  |          |              |
| a)   | Girth from 300 mm to 600 mm  | Each    | 95                 |                  |          |              |
| b)   | Girth beyond 600 mm to 900 mm  | Each    | 0                  |                  |          |              |
| c)   | Girth beyond 900 mm to 1800 mm   | Each    | 0                  |                  |          |              |
| d)   | Girth above 1800 mm  | Each    | 0                  |                  |          |              |
| 2.02   | Removal of stumps and roots of trees cut by other agencies, stacking of serviceable material with all leads and lifts and back earth filling in the depressions/pits as per relevant clauses of Technical Specification Section 200.   |         |                    |                  |          |              |
| a)   | Girth from 300 mm to 600 mm  | Each    | 0                  |                  |          |              |
| b)   | Girth beyond 600 mm to 900 mm  | Each    | 0                  |                  |          |              |
| c)   | Girth beyond 900 mm to 1800 mm   | Each    | 0                  |                  |          |              |
| d)   | Girth above 1800 mm  | Each    | 0                  |                  |          |              |
| 2.03   | Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees with girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material through all leads and lifts as per Technical Specification Clause 201. |         |                    |                  |          |              |
| a)   | In area of light jungle  | Hectare | 3                  |                  |          |              |
| 2.04   | Scarification of existing bituminous surface up to 50 mm thick including disposal of unsuitable material with all lead and lift and clearing complete as per Technical Specification Clause 501.8.3.2  | Sqm     | 12200              |                  |          |              |
| <b>Bill No.2 Page Total (carried forward to Page collection sheet)</b> |  |         |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |   |       |                    |                  |          |              |
|--|---|-------|--------------------|------------------|----------|--------------|
| Item No.   | Description   | Unit  | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |   |       |                    | In Figures       | In Words | In Figures   |
| 2.05   | Dismantling structures and pavement including disposal of resulting material and/or salvaging useful material as per Technical Specifications Clause 202. |       |                    |                  |          |              |
| a)   | Stone masonry in cement mortar  | Cum   | 0                  |                  |          |              |
| b)   | Dry rubble stone masonry  | Cum   | 0                  |                  |          |              |
| c)   | Guard stone/ kilometer stone/sign post/hectometer stones  | no.   | 0                  |                  |          |              |
| d)   | Plain cement concrete structures  | Cum   | 0                  |                  |          |              |
| e)   | RCC structures including reinforcement  | Cum   | 29                 |                  |          |              |
| f)   | Hume pipe of any class  |       |                    |                  |          |              |
|  | i) Diameter between 300 mm to 900 mm  | lin m | 0                  |                  |          |              |
|  | ii) Diameter of over 900 mm   | lin m | 0                  |                  |          |              |
| g)   | Brick soling  | Cum   | 5889               |                  |          |              |
| 2.06   | Cleaning of Hume Pipe culverts as per Additional Technical Specifications A-1.  | Lm    | 0                  |                  |          |              |
| <b>Bill No.2 Page Total (carried forward to Page collection sheet)</b> |   |       |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |  |      |                    |              |          |              |
|--|--|------|--------------------|--------------|----------|--------------|
| Item No.   | Description  | Unit | Estimated Quantity | Unit Rate in |          | Amount (Rs.) |
|  |  |      |                    | In Figures   | In Words | In Figures   |
| <b>BILL NO.3 - EARTH WORKS</b>   |  |      |                    |              |          |              |
| 3.01   | Roadway excavation necessary for construction of roadway complete with all lead and lift as per Technical Specification Clause 301:  |      |                    |              |          |              |
| a)   | In all types of soil   | cum  | 7574               |              |          |              |
| 3.02   | Providing and construction of embankment with approved materials obtained from roadway and excavation from drains, foundation of other structures and transportation through all lifts and leads including spreading, graded and compacted to meet requirement of table 300-2 and as per relevant clauses of Technical Specification Section-300.  | cum  | 7574               |              |          |              |
| 3.03   | Construction of embankment / sub grade / earthen shoulders with approved material obtained from borrow pits with all lifts & leads including excavation, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2 and as per relevant clauses of Technical Specification Section 300 & 400. |      |                    |              |          |              |
| a)   | Earth (CBR not less than 7% or more) embankment and subgrade.  | Cum  | 11972              |              |          |              |
| b)   | Earth (CBR not less than 12% or more) for shoulder filling above drainage layer.   | Cum  | 12598              |              |          |              |
| 3.04   | Sand Filling obtained from selected quarry with all lifts and leads including transporting to site, spreading grading to required slope and compacted to meet requirement of table no. 300-2 and the relevant clauses of Technical Specification   | Cum  | 0                  |              |          |              |
| 3.05   | Turfing with sods  |      |                    |              |          |              |
|  | Furning and laying of the sods of perennial turf forming grass on embankment slope, verges or other locations shown in the drawing or as directed by the Engineer including preparation of ground, fetching of sods and watering as per MoRTH Technical Specification clauses of Section 300   | Sqm  | 58803              |              |          |              |
| <b>Bill No.3 Page Total (carried forward to Page collection sheet)</b> |  |      |                    |              |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |  |      |                    |                  |          |              |
|--|--|------|--------------------|------------------|----------|--------------|
| Item No.   | Description  | Unit | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |  |      |                    | In Figures       | In Words | In Figures   |
| <b>Bill No. 4 - SUB-BASE, BASE-COURSE (Non Bituminous)</b>             |  |      |                    |                  |          |              |
| 4.01   | Construction of granular sub-base by providing coarse graded material, spreading in uniform layers on prepared surface and compacting at OMC with vibratory roller to achieve the desired density, complete in all respect and as per Technical Specifications Clause 401, using coarse graded materials conforming to Grading - II of Table 400-2.  | cum  | 1559               |                  |          |              |
| 4.02   | 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 tippers to site, laying in uniform layers with sensor paver and compacting with vibratory roller to achieve the desired density and as per Technical Specification Clause 406. | cum  | 7754               |                  |          |              |
| <b>Bill No.4 Page Total (carried forward to Page collection sheet)</b> |  |      |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |  |      |                    |                  |          |              |
|--|--|------|--------------------|------------------|----------|--------------|
| Item No.   | Description  | Unit | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |  |      |                    | In Figures       | In Words | In Figures   |
| <b>BILL NO.5 - PAVEMENT (Bituminous)</b>                               |  |      |                    |                  |          |              |
| 5.01   | Providing and applying primer coat with bitumen emulsion on prepared surface of granular base with low porosity WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm with pressure distributor and as per Clause 502 of Technical Specifications. | sqm  | 44483              |                  |          |              |
| 5.02   | Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per Clauses 503 of Technical Specifications.   |      |                    |                  |          |              |
| a)   | @ 0.25 kg per sqm on bituminous surface  | sqm  | 159534             |                  |          |              |
| b)   | @ 0.30 kg per sqm on (dry & hungry bituminous surfaces/granular surfaces treated with primer)  | sqm  | 42317              |                  |          |              |
| 5.03   | Providing and laying Dense Graded Bituminous Macadam (DBM) course complete as per Technical Specification Clause 507 and conforming to Table 500-10.   |      |                    |                  |          |              |
| a)   | For Grading -II ( 50-75 mm thickness )   | cum  | 2087               |                  |          |              |
| 5.04   | Providing and laying Bituminous Concrete (BC) wearing course complete with refinery produced bitumen as per Technical Specification Clause 509 and conforming to Table 500-18  |      |                    |                  |          |              |
| a)   | For Grading II ( 30-45 mm thickness )  | cum  | 6444               |                  |          |              |
| <b>Bill No.5 Page Total (carried forward to Page collection sheet)</b> |  |      |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |   |      |                    |                  |          |              |
|--|---|------|--------------------|------------------|----------|--------------|
| Item No.   | Description   | Unit | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |   |      |                    | In Figures       | In Words | In Figures   |
| <b>BILL NO.6 - CROSS DRAINAGE STRUCTURES (DRAINS, PROTECTIONS WORKS, BRIDGES AND CULVERTS)</b> |   |      |                    |                  |          |              |
| 6.01   | Earth work in excavation in foundation of structures as per drawing , for all depths in all types of soil/rock including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of surplus material etc. with all leads and lifts complete and as per relevant clauses of Technical Specification Sections 300, 2100 and 2900.                           | cum  | 9179               |                  |          |              |
| a)   | In all types of soil  |      |                    |                  |          |              |
| 6.02   | Providing, laying and compacting first class bedding of granular material for RCC hume pipe culverts complete as per Drawings and Technical Specification Clause 2904.  | cum  | 0                  |                  |          |              |
| 6.03   | Providing and laying Plain Cement Concrete for levelling course below foundation, below approach slab foundation, abutment, return wall, wing wall, head wall, curtain wall, pillar and guard wall including treatment of joints between existing and new structures with all leads and lifts complete as per drawings and Technical Specification Section 1500,1700,2100 and 2200.   | cum  | 3233               |                  |          |              |
| a)   | PCC Grade M 15  |      |                    |                  |          |              |
| 6.04   | Providing and laying Plain Cement Concrete (PCC) for foundation and substructure of abutment, return wall, wing wall, head wall of Hume Pipe Culverts, pillar, guard wall excluding cost of skin reinforcement, but including treatment of joints between existing and new structures with all leads and lifts as per drawings and as per relevant clauses of Technical Specification Sections 1500, 1700, 2100, 2200, and 2900 | cum  | 3632               |                  |          |              |
| a)   | PCC Grade M 20  |      |                    |                  |          |              |
| 6.05   | Providing and laying Reinforced Cement Concrete (RCC) for foundation and sub structure of abutment, box, return wall, wing wall, slab and head wall but excluding cost of reinforcement including treatment of joints between existing and new structures with all leads and lifts complete as per drawings and Technical Specification Section 1500,1700,2100 2200 and 2300  | cum  | 3288               |                  |          |              |
| a)   | RCC Grade M 20  |      |                    |                  |          |              |
| <b>Bill No.6 Page Total (carried forward to Page collection sheet)</b>                         |   |      |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |  |       |                    |                  |          |              |
|--|--|-------|--------------------|------------------|----------|--------------|
| Item No.   | Description  | Unit  | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |  |       |                    | In Figures       | In Words | In Figures   |
| 6.06   | Supplying, fitting and placing HYSD bar (Fe 415) reinforcement in foundation substructure, super structure, piles, concrete pavement, approach slab, RCC railing etc. complete as per drawing and as per relevant clauses of Technical Specification Section 1600.   | MT    | 229                |                  |          |              |
| 6.07   | Providing weep holes in stone masonry/Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia. PVC pipe, extending through the full width of the structure with slope of 1V:20H, complete as per drawing and Technical specifications clause 2706.   | m     | 357                |                  |          |              |
| 6.08   | Back filling behind abutments, wing wall, retaining/return wall, head wall or any other area with granular material of approved quality complete with all leads and lifts as per drawings and Technical Specification Clause 305.  | cum   | 318                |                  |          |              |
| 6.09   | Providing and laying filter media behind abutment, wing/return wall and retaining wall with granular materials satisfying the requirement laid down in Technical Specification Clause 309.3.2 (B) and compacted to a firm condition complete as per drawings and Technical Specification Clause 305.   | cum   | 971                |                  |          |              |
| 6.10   | Providing and Laying reinforced cement concrete pipe NP4 (as per IS:458) for culverts including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets, first class bedding of granular material complete as per Drawing and relevant clauses of Technical Specification Section-2900.                                |       |                    |                  |          |              |
| a)   | Dia 1200 mm (internal)   | Rm    | 10                 |                  |          |              |
| 6.11   | Providing and filling joint sealing compound (40mm gap) as per drawings and technical specifications with coarse sand and 6% bitumen by weight and as per relevant clauses of Technical Specification Section 2600   | metre | 66                 |                  |          |              |
| 6.12   | Construction of RCC railing of M30 Grade in-situ with 12 mm nominal size aggregate, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, center to center spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical posts for expansion, complete as per drawings and relevant clauses of Technical Specification Sections 1500, 1600, 1700 and 2703. | Rm    | 28                 |                  |          |              |
| <b>Bill No.6 Page Total (carried forward to Page collection sheet)</b> |  |       |                    |                  |          |              |



Project Road Name : TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |   |      |                    |                  |          |              |
|--|---|------|--------------------|------------------|----------|--------------|
| Item No.   | Description   | Unit | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |   |      |                    | In Figures       | In words | In Figures   |
| 6.13   | Providing and laying boulders apron/toe wall on river bed for protection against scour with stone boulders weighing not less than 40 kg each complete as per drawing and relevant clauses of Technical Specification Section 2500.                                  | cum  | 0                  |                  |          |              |
| 6.14   | Providing and laying stone pitching on slopes laid over prepared filter media bed complete as per drawing and relevant clauses of Technical Specification Section 2500.   | cum  | 0                  |                  |          |              |
| 6.15   | Providing and laying filter material underneath pitching in slopes complete as per drawing and Clause 2504.2.2 of Technical Specifications.   | cum  | 0                  |                  |          |              |
| 6.16   | Providing and laying flooring over cement concrete bedding complete as per Drawings and Technical Specification Clause 2505.  |      |                    |                  |          |              |
| a)   | Rubble stone laid in cement mortar 1:3 over concrete bedding  | cum  | 0                  |                  |          |              |
| 6.17   | Providing and laying curtain walls in cement concrete complete as per drawing and relevant clauses of Technical Specification Sections 1400, 1700 and 2507.   |      |                    |                  |          |              |
| a)   | Cement concrete Grade M15   | cum  | 0                  |                  |          |              |
| 6.18   | Construction of flexible apron comprising of loose stone boulders weighing not less than 40 kg beyond curtain wall complete as per Drawings and relevant clauses of Technical Specification Section 2500.   | cum  | 0                  |                  |          |              |
| 6.19   | Supply and fixing of precast perforated RCC slab in M-20 concrete including the cost of all material, labour, operations, HYSD bar (Fe 415) reinforcement as per drawings and relevant clauses of Technical Specifications Section 1700 (for covered lined drains). |      |                    |                  |          |              |
| a)   | Unit Size 900mm x 1000mm x 100mm  | No.  | 2990               |                  |          |              |
| 6.20   | Providing and applying 2 coats of water based cement paint to unplastered concrete surface all complete as per Additional Technical Specifications A-4.   | sqm  | 210                |                  |          |              |
| 6.21   | Painting of structure number and span arrangement, all complete as per drawings and Additional Technical Specifications A-3.  | No.  | 92                 |                  |          |              |
| 6.22   | Repairing and cleaning drainage spouts area around of all mortar dropping, complete as per Drawings and Additional Technical Specifications A-5.  | Nos. | 54                 |                  |          |              |
| 6.23   | Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days. PCC 1:3:6 in Foundation                                     | cum  | 12                 |                  |          |              |
| <b>Bill No.6 Page Total (carried forward to Page collection sheet)</b> |   |      |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |   |      |                    |                  |          |              |
|--|---|------|--------------------|------------------|----------|--------------|
| Item No.   | Description   | Unit | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |   |      |                    | In Figures       | In Words | In Figures   |
| <b>BILL NO.7 - TRAFFIC SIGNS, MARKINGS AND ROAD APPURTENANCES</b>      |   |      |                    |                  |          |              |
| 7.01   | Providing and fixing retro-reflectorised cautionary and mandatory signs as per standard type design in accordance with IRC: 67, made of encapsulated lense type retro reflective sheeting conforming to specifications in Clause 801.3 of Technical Specifications fixed over aluminium sheeting, 2mm thick, supported on M.S. angle iron posts 75mm x 75mm x 6mm (height from crown level of the road to bottom of the sign board not less than 1.5m) firmly embedded into ground in M-15 grade cement concrete block of size 45cm x 45cm x 60cm, 60cm below ground level including painting of vertical post complete as per drawings and Technical Specifications Section 800. |      |                    |                  |          |              |
| a)   | 60 cm equilateral triangle Cautionary signs.  | each | 262                |                  |          |              |
| b)   | 60 cm circular Mandatory Signs  | each | 23                 |                  |          |              |
| c)   | 60 cm size octagon Stop signs.  | each | 41                 |                  |          |              |
| 7.02   | Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting as per Drawings and Technical Specification Section 800.  |      |                    |                  |          |              |
| a)   | 800 mm x 600 mm   | each | 11                 |                  |          |              |
| b)   | 600 mm x 450 mm   | each | 95                 |                  |          |              |
| 7.03   | Providing and erecting direction and place identification retro-reflectorised sign as per IRC :67 made of encapsulated lens type reflective sheeting as per Drawings and Technical Specification Section 800.   |      |                    |                  |          |              |
| a)   | 1200 mm x 1800 mm   | each | 6                  |                  |          |              |
| <b>Bill No.7 Page Total (carried forward to Page collection sheet)</b> |   |      |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |   |      |                    |                  |          |              |
|--|---|------|--------------------|------------------|----------|--------------|
| Item No.   | Description   | Unit | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |   |      |                    | In Figures       | In Words | In Figures   |
| 7.04   | Providing reinforced cement concrete M15 grade distance stones of standard design as per IRC:8-1980 and IRC:26-1967, fixing in position including painting and printing etc as per relevant clauses of Technical Specification Section 800.   |      |                    |                  |          |              |
| a)   | 5th kilometre stone (precast)   | each | 4                  |                  |          |              |
| b)   | Ordinary kilometer stone (precast)  | each | 17                 |                  |          |              |
| c)   | Hectometer stone (precast)  | each | 80                 |                  |          |              |
| 7.05   | Providing and laying road markings as per relevant clauses of Technical Specification Section 800.  |      |                    |                  |          |              |
| a)   | Lane/centreline/edge marking/transverse and any other markings  | sqm  | 8164               |                  |          |              |
| b)   | Directional arrows, lettering, etc., as per MORT&H type design of inter section for State Highways.   | Nos. | 162                |                  |          |              |
| 7.06   | Providing and fixing roadway indicators, hazard markers and object markers of type and size confirming to Technical Specifications Clause 805 in general:   |      |                    |                  |          |              |
| a)   | Triangular object marker 300 mm side with four red reflectors, made out of 2 mm thick aluminium sheet, face to be fully covered by high intensity grade white retro reflective sheeting of encapsulated lens type. The background/border/symbols shall be made by screen printing of desired colour as per sign details and drawings. Sign mounted on 50 mm (NB) dia, medium weight, 500 mm high MS pipe in general confirming to Technical Specifications Section 800. All components of signs and supports shall be thoroughly descaled, cleaned, primed and painted with two coats of epoxy paint. The sign back side shall be painted with grey colour and post shall be painted with white & black colour. The post below ground shall be painted with 3 coats of red oxide paint and is fixed into the ground in cement concrete block - M15 as per drawings. | each | 8                  |                  |          |              |
| <b>Bill No.7 Page Total (carried forward to Page collection sheet)</b> |   |      |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |  |       |                    |                  |          |              |
|--|--|-------|--------------------|------------------|----------|--------------|
| Item No.   | Description  | Unit  | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |  |       |                    | In Figures       | In Words | In Figures   |
| b)   | Rectangular hazard marker 600 mm x 300 mm made out of 2 mm thick aluminum sheet, face to be fully covered by high intensity grades white retro reflective sheeting of encapsulated lens type. The background/border/symbols shall be made by screen printing of desired colour as per sign details and drawings and fixed to 80 mm dia (NB) MS pipe (MW) support with nut bolts and welding. It is fixed into the ground in cement concrete block - M15 as per drawings in general conforming to Technical Specifications Section 800.   | Nos.  | 12                 |                  |          |              |
| c)   | Providing and fixing of RCC guide post 300 mm dia NP-2 type hume pipe conforming to IS:458-1988 for guard stone and formation indicators etc. filled with earth except 0.15 m from top and with cement concrete of M-10 topping embedded in M-10 grade cement concrete block of size 600 mm x 600 mm x 450 mm complete in all respects including cost of painting with white and black paint as per drawings and Technical Specifications Clause 805.3.  | Nos.  | 1527               |                  |          |              |
| 7.07   | Reinforced cement concrete M-15 grade boundary pillars of standard design as per IRC:25-1967, fixed in position including finishing, painting and lettering complete as per Technical Specification Clause 806.  | each  | 202                |                  |          |              |
| 7.08   | Providing and laying of precast cement concrete kerbs with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid manually, all complete and as per Drawings and Technical Specification clause 408.   | metre | 951                |                  |          |              |
| 7.09   | Providing and erecting Type 'A' "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical posts, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, with steel parts and fittings galvanised by hot dip process and fittings conforming to IS:1367 and IS:1364 including fixing metal beam rail fixed on vertical posts with spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per drawings and Technical Specification clause 810. | metre | 5000               |                  |          |              |
| <b>Bill No.7 Page Total (carried forward to Page collection sheet)</b> |  |       |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

|  |  |     |      |  |  |  |
|--|--|-----|------|--|--|--|
| 7.10   | Providing and fixing in position tubular gantry mounted Overhead/ cantilever signs by erecting mild steel framed stretles and trusses properly fixed with RCC column-foundation as per detail design and drawing including priming and painting with two coats of epoxy paint and fixing sign boards made out of 2mm thick aluminum sheet, face to be fully covered by high intensity grade white retro reflective sheeting of encapsulated lens type. The background/ border/ symbols/ legend/ arrows shall be made by transparent overlay film of desired colour as per sign details except those in black which shall be of non-reflective type complete as per IRC-67-2001 and Technical Specifications Clause 801& 802. |     |      |  |  |  |
|  | 12M Span Tubular Gantry mounted Overhead Sign  | Nos | 3    |  |  |  |
| 7.11   | Providing and fixing road studs/RPMs for permanent marking comply with standard EN1463 and BS 873 (Part:IV) according to the CIL requirements to ASTM D 4280 standard  | Nos | 1082 |  |  |  |
| 7.12   | Providing and fixing retro-reflectorised Road delineators complete as per drawing and Technical Specification section 800 and as directed by the Engineer.   | Nos | 162  |  |  |  |
| <b>Bill No.7 Page Total (carried forward to Page collection sheet)</b> |  |     |      |  |  |  |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |   |           |                    |                  |          |              |
|--|---|-----------|--------------------|------------------|----------|--------------|
| Item No.   | Description   | Unit      | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |   |           |                    | In Figures       | In Words | In Figures   |
| <b>BILL NO.8 – MISCELLANEOUS</b>                                       |   |           |                    |                  |          |              |
| 8.01   | Routine maintenance of existing road, during construction period including repairs of potholes, patch work, shoulders, rain cuts, clearing of drains/culverts, clearing of roadway, clearing/removal of vegetation/dead animals, maintaining road signs, KM stones, traffic markings, etc as per Technical Specifications Section 3000. |           |                    |                  |          |              |
| a)   | <b>MDR - Single Lane</b>  | Km. month | 11                 |                  |          |              |
| 8.02   | Cattle Catcher with MS Plate, Channel including Welding, fabricated and erecting at site as per drawings and specifications as directed by Engineer   | Kg        | 2500               |                  |          |              |
| <b>Bill No.8 Page Total (carried forward to Page collection sheet)</b> |   |           |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES   |   |      |                    |                  |          |              |
|--|---|------|--------------------|------------------|----------|--------------|
| Item No.   | Description   | Unit | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|  |   |      |                    | In Figures       | In Words | In Figures   |
| <b>BILL NO.9 - ENVIRONMENT MANAGEMENT PLAN</b>                         |   |      |                    |                  |          |              |
| 9.01   | Providing and constructing hollow brick wall panel noise barriers, 3.5 m height above ground level, near sensitive locations like schools and hospitals as per drawings and Technical Specifications (Addl. Clause A.6), at locations under direction of the Engineer | RM   | 180                |                  |          |              |
| 9.02   | Providing and erecting Cement Concrete sitting benches, as per designs and Technical Specifications (Addl. Clause A.7) and directions of the Engineer   | Each | 30                 |                  |          |              |
| 9.03   | Providing and erecting barbed wire fencing as per drawings and Technical Specifications (Addl. Clause A.8) and directions of the Engineer.  | RM   | 200                |                  |          |              |
| <b>Bill No.9 Page Total (carried forward to Page collection sheet)</b> |   |      |                    |                  |          |              |

Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES  |  |         |                    |                  |          |              |
|---|--|---------|--------------------|------------------|----------|--------------|
| Item No.  | Description  | Unit    | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|   |  |         |                    | In Figures       | In Words | In Figures   |
| <b>Bill No.10 Bill of Dayworks-Provisional Sums</b>                     |  |         |                    |                  |          |              |
| 10.01   | Providing the following manpower with tools and instruments including overheads                    |         |                    |                  |          |              |
| i)  | Unskilled Labour   | Mandays | 150                |                  |          |              |
| ii)   | Semi skilled Labour  | Mandays | 100                |                  |          |              |
| iii)  | Skilled Labour   | Mandays | 50                 |                  |          |              |
| 10.02   | Providing following machinery complete with accessories, operator,fuel,depreciation,overhead etc.: |         |                    |                  |          |              |
| i) ii)  | Dozer D-50-A 15  | Hours   | 50                 |                  |          |              |
| iii)  | Dozer D-80-A 12  | Hours   | 50                 |                  |          |              |
| iv)   | Motor Grader 3.35m blade   | Hours   | 45                 |                  |          |              |
| v)  | Hydraulic excavator with 1 cum bucket capacity   | Hours   | 40                 |                  |          |              |
| vi)   | Front End Loader 1 cum bucket capacity   | Hours   | 96                 |                  |          |              |
| vii)  | Tipper - 5 cum capacity  | Km      | 143                |                  |          |              |
| viii)   | Vibratory Roller 8 tonne   | Hours   | 40                 |                  |          |              |
| ix)   | Smooth wheel roller 8 tonne  | Hours   | 40                 |                  |          |              |
| x)  | Water tanker 6KL   | Km      | 150                |                  |          |              |
| xi)   | Tractor - 50 Horse Power   | Hours   | 100                |                  |          |              |
| xii)  | Ripper - 60 cum per hour   | Hours   | 50                 |                  |          |              |
| xiii)   | Air compressor 170 cfm   | Hours   | 50                 |                  |          |              |
| xiv)  | Crane - 3 tonnes   | Hours   | 50                 |                  |          |              |
| xv)   | Concrete mixer 0.28 cum capacity   | Hours   | 50                 |                  |          |              |
| xvi)  | Generator 33 KVA   | Hours   | 50                 |                  |          |              |
|   | Truck 5.5 cum / 10 tonnes capacity   | Km      | 100                |                  |          |              |
| <b>Bill No.10 Page Total (carried forward to Page collection sheet)</b> |  |         |                    |                  |          |              |



Project Road Name: TR 02 Udaipur to Melaghar (Tranche 2 road in the State of Tripura)

| BILL OF QUANTITIES  |   |       |                    |                  |          |              |
|---|---|-------|--------------------|------------------|----------|--------------|
| Item No.  | Description   | Unit  | Estimated Quantity | Unit Rate in Rs. |          | Amount (Rs.) |
|   |   |       |                    | In Figures       | In Words | In Figures   |
| 10.03   | Providing materials including cost of materials, carriage and stacking including all taxes, overheads and profit etc. |       |                    |                  |          |              |
| i)  | Ordinary portland Cement (Grade 43)   | tonne | 50                 |                  |          |              |
| ii)   | HYSD Fe 415 bars  | tonne | 50                 |                  |          |              |
| iii)  | River Coarse sand   | cum   | 50                 |                  |          |              |
| iv)   | Crushed stone aggregate 20 mm   | cum   | 50                 |                  |          |              |
| v)  | Crushed stone aggregate 13.2 mm   | cum   | 50                 |                  |          |              |
| vi)   | Dressed stone for masonry work  | no.   | 300                |                  |          |              |
| vii)  | Stone boulders with average weight not less than 40 Kgs   | cum   | 100                |                  |          |              |
| viii)   | Moorum with CBR more than 20 % & PI less than 6   | cum   | 50                 |                  |          |              |
| ix)   | Paving bitumen 60/70 grade packed   | tonne | 10                 |                  |          |              |
| <b>Bill No.10 Page Total (carried forward to Page collection sheet)</b> |   |       |                    |                  |          |              |

# Letter of Price Bid

Date: \_\_\_\_\_

ICB No.: \_\_\_\_\_

Invitation for Bid No.: \_\_\_\_\_

To: \_\_\_\_\_

**Subject: Tender for Contract No. INDIA, ADB Project No.3073**

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda Nos. **[insert Addenda numbers]** issued in accordance with Instructions to Bidders (ITB) 8;
- (b) We offer to execute in conformity with the Bidding Documents and the Technical Bid submitted for the following Works:

***[Insert Brief Description of the Works for the relevant Contract]***

Improvement and Up-gradation of Road Section of Udaipur to Melaghar (TR02) (Tranche-2 road in the State of Tripura) under North Eastern State Roads Investment Program.

- (c) The total price of our Bid, excluding any discounts offered in item (d) below is: ***Bidder to insert total price in words and figures]***
- (d) The discounts offered and the methodology for their application are: ***[Bidder to insert if applicable]***
- (e) Our Bid shall be valid for a period of 120 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: \*\*

| Name of Recipient | Address | Reason | Amount |
|-------------------|---------|--------|--------|
| .....             | .....   | .....  | .....  |
| .....             | .....   | .....  | .....  |

- (h) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and

- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Name: \_\_\_\_\_ In

the capacity of: \_\_\_\_\_

Signed: \_\_\_\_\_

Duly authorized to sign the Bid for and on behalf of: \_\_\_\_\_

Date: \_\_\_\_\_

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**\*\* If none has been paid or is to be paid, indicate "none"**

Volume -2 – Letter of Price Bid

## Schedules

### Schedule of Payment Currencies

For .....insert name of Section of the Works

Improvement and Upgradation of Road Section of Udaipur to Melaghar (TR02) (Tranche-2 road in the State of Tripura) under North Eastern State Roads Investment Program

Separate tables may be required if the various sections of the Works (or of the Bill of Quantities) will have substantially different foreign and local currency requirements. The Employer should insert the names of each Section of the Works.

|  | A                  | B                                  | C   | D   |
|--|--------------------|------------------------------------|---|---|
| Name of Payment Currency                     | Amount of Currency | Rate of Exchange to Local Currency | Local Currency Equivalent<br>$C = A \times B$ | Percentage of Net Bid Price (NBP)<br>$\frac{100 \times C}{NBP}$ |
| Local currency                               |                    | 1.00                               |   |   |
| Foreign Currency #1                          |                    |                                    |   |   |
| Foreign Currency #2                          |                    |                                    |   |   |
| Foreign Currency #                           |                    |                                    |   |   |
| Net Bid Price                                |                    |                                    |   | 100.00  |
| Provisional Sums Expressed in Local Currency | 2,0000000.00       | 1.00                               | 2,0000000.00                                  |   |
| <b>BID PRICE</b>                             |                    |                                    |   |   |

Volume -2 – Letter of Price Bid

**Tables of Adjustment Data**

**Table A - Local Currency**

| Index Code   | Index Description | Source of Index | Base Value and Date | Bidder's Local Currency Amount | Bidder's Proposed Weighting                              |
|--------------|-------------------|-----------------|---------------------|--------------------------------|--|
|              | Nonadjustable     | —               | —                   | —                              | A: _____<br>B: _____<br>C: _____<br>D: _____<br>E: _____ |
| <b>Total</b> |                   |                 |                     |                                | <b>1.00</b>  |

**Table B - Foreign Currency**

**Name of Currency:** .....

If the Bidder wishes to quote in more than one foreign currency, this table should be repeated for each foreign currency.

| Index Code   | Index Description | Source of Index | Base Value and Date | Bidder's Currency in Type/Amount | Equivalent in FC1 | Bidder's Proposed Weighting                              |
|--------------|-------------------|-----------------|---------------------|----------------------------------|-------------------|--|
|              | Nonadjustable     | —               | —                   | —                                |                   | A: _____<br>B: _____<br>C: _____<br>D: _____<br>E: _____ |
| <b>Total</b> |                   |                 |                     |                                  |                   | <b>1.00</b>  |