



Asansol Durgapur Development Authority
(A Statutory Body of the Government of West Bengal)

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Memo No: ADDA/ASN/ED/NIQ-10(2021-2022)/607

Dated. 17.12.2021

Notice Inviting Quotation No.:NIQ-10 of 2021-22
(Two-Cover Bid System)

Executive Engineer, ADDA, Asansol invites **Sealed Quotation on Lump-Sum Basis** for the work noted below under TWO COVER BID SYSTEM from reputed and resourceful consultant who have executed similar type of work of consultancy fee not less than Rs. 2,50,000.00 (**Two lakh fifty thousand**) in a single contract during the preceding 5 (five) years in any Govt./Semi Govt./Undertakings/Autonomous Body/Statutory Body. Detail information can be found from ADDA, Asansol Office during office hours. For this N.I.Q. visit our website www.addaonline.in

Sl.No	Name of work	Initial Earnest Money (in Rs.)	Period of completion	Defect Liability Period
1.	Widening & Strengthening of Black Top road from Air Strip to Rangapara Bus Stand, Dharampur via IISCO Tunnel Gate, Burnpur in the District of Paschim Bardhaman	5,000.00	One month	06 (Six Months)

This work includes consultancy services in engineering design and drawing along with detail estimate for the proposed project.

General Terms & Conditions

A) Scope of work:

1) **Project Information:-** Predominantly roads with cross drainage structure, surface drain and guard wall likely to be taken up with funding from appropriate authority.

2) **Objectives:-**

Main objective of the study can be broadly enumerated as below:

- i) Preparation and finalization of Detailed Project Report for construction of standard 2 lane bituminous road, at least 1.00 m hard shoulder & earthen shoulder each with proper camber, super elevation, longitudinal slope and estimate along with electrical works. Including conducting Survey with appropriate instrument and technical personnel, highway design, pavement design as per relevant IS/IRC code for construction of new flexible pavement, new culverts, protection work and other structures all complete.
- ii) To provide detail item wise estimate including analysis of rates as per standard SOR, PW(roads) schedule/ PWD (Schedule)/ DATA book published by MORTH & H/ Notifications/ Circulars published by MORTH&H/GOI/GOWB as applicable.
- iii) To provide Key Plan with all details of this road as per direction of Executive Engineer.

3) **Detailed Study and Investigations:-**

The consultant should use sophisticated machine /techniques/ Software for preparing the survey drawing. However, the consultant shall intimate about methodology and survey equipments/ software planned/ position of taking soil sample during this work. ROW marking is required in the respective road.

3.1) **Traffic Survey:-**

- i) Identify homogeneous section for traffic and conduct 7 days classified traffic volume survey (continuous and direction wise) at survey station to be finalized with concurrence of Executive Engineer.
- ii) To make traffic demand forecast based on IRC code.

3.2) Axle load spectrum survey:-

Axle load surveys in both directions shall be carried out using high precision instruments i.e. in the approved project road stretch on a random sample basis. The axle load survey shall capture buses, trucks, tractor with trailers in the traffic stream. The survey shall be for both directions. The vehicle damage factor shall be calculated as per the equivalency factors given in IRC: 37.

3.3) Topographic Survey

- a) The detailed field surveys shall be carried out using high precision instruments i.e. total stations. The data from topographic surveys shall be available in (x,y,z) format for use in a sophisticated digital terrain model (DTM). The consultants would be fully responsible for correctness and accuracy in surveys.
- b) Topographic surveys shall be along the existing right of way (ROW) but the width of the survey corridor should take into account the layout of the existing alignment including the extent of embankment and cut slopes and the general ground profile after accommodating or realignment of 15m on either side of centre line of proposed alignment of upto ROW of proposed road to be decided in consultation with employer.
- c) Preparation of ROW details: Consultant has to prepare ROW details including road land register by collecting authenticated documents like ROR/ available records from respective BL&LRO office/other offices. ROW marking at field is required in the proposed project stretch.
- d) **The detailed field surveys would essentially include at least the following activities:**
 - i) Running a continuous open traverse along the existing road and realignments, wherever required and fixation of all cardinal points such as horizontal intersection points (HIP's), Bench Mark, center points and transit points etc. and properly referencing the same with a pair of reference pillars fixed on either side of the center line at safe places within the ROW.
 - ii) Carrying out Topographical Survey & leveling with ATS machine in accordance with latest IRC SP-19 along road alignment & collection of relevant data for objects lying within survey corridor.
 - iii) Collection of details for all features such as structures (culverts, guard wall, drains etc.) utility services, existing roads, electric, telephone and also water pipe lines installations (including O/H as well as underground) oil and gas lines etc. falling within extent of survey. These must be shown in General Arrangement drawing.
 - iv) Where existing roads cross the alignments, the survey will extend a minimum of 100m on either side of the road centre line and will be of sufficient width to allow improvements, including grade intersection to be design.
 - v) All R.L should be considered with reference to GTS Bench Mark.
 - vi) Incorporation of design road profile in CS drawings showing & proposed road profile (based on approved alignment) as per latest IRC- SP-19 in consultation with QIA.
 - vii) Developing design (on approved alignment) for horizontal alignment, vertical alignment, super elevation etc. using latest Auto CAD compatible software in conformity with the provisions built in latest IRC code & in consultation with QIA & incorporating of design values in appropriate survey drawings.
- e) **Longitudinal and Cross Sections:**

The topographic surveys for longitudinal and cross sections shall cover the following:

 - i) Longitudinal section levels along final centre line at every 25.00 m interval, at the locations of curve points, small streams and section and at the locations of change in elevations.
 - ii) Cross section at every 50.00 m interval in full extent of survey covering sufficient number of spot levels on existing road and adjacent ground for profile correction course and earth work calculation. Cross section shall be taken at closer interval at curves.
 - iii) Longitudinal section for cross roads for length adequate for design and quantity estimation purposes.
 - iv) Longitudinal and Cross sections for major and minor streams as per recommendations contained in IRC Special Publication No. 13 (Guidelines for the design of small bridges and culverts) and IRC: 5-

1998 ("Standard specifications & code of practice for road bridge Section 1- General Features of Design") or as per direction of Engineer in charge.

3.4) **Details of utility services and other Physical Features:**

- i) The consultants shall collect details of all important physical features along the alignment. These features should normally include important buildings and structures, monuments, burial grounds, cremation grounds, places of worships, railway lines, stream/ river/ canal, water supply lines, sewers, gas/oil pipes, crossings, trees, plantations, utility services such as electric and telephone lines (O/H &) and poles, etc. The survey would cover the entire right of way of the road on the adequate allowance for possible shifting of the central lines at some of the intersection locations.
- ii) The information collected during reconnaissance and field surveys shall be shown on a strip plan so that, the proposed improvements can be appreciated and utility removals of each type etc. assessed and suitable actions can be initiated. Separate strip plan for the services involved shall be prepared (Utility relocation plan).
- iii) The consultants shall mark all the road side trees which are required to be felled to implement the project. The procedure of marking will be as directed by the EIC. A list of such marked trees also to be submitted along with report.

3.5) **Field Investigation of Roads**

- i) Pavement Investigation
 - a) Pavement Composition
The consultants shall make trial pits and/ or core at centre of the road to ascertain the pavement composition. The test pit interval will be 250.00m in general. The trial pits/core shall have to be filled with suitable material to avoid damage to the road.
 - b) Road and Pavement condition surveys:
Detailed field studies shall be carried out to collect road and pavement surface conditions. The data should generally cover pavement condition (Surface distress type and extent) shoulder condition, embankment condition and drainage condition.
 - c) Drainage:
Field study shall include general condition connectivity of drainage turnouts into the natural topography, condition in cut sections, condition at high embankments local (village/local area level) drainage and flooding problem. The data obtained from the condition surveys should be analyzed and the road segments of more or less equal performance may be identified using the criteria given in IRC:81-1997.
 - d) Sub-grade characteristics and strength
 - i) In-situ density and moisture content at each test pit.
 - ii) Field CBR using DCP at each test pit.
 - iv) Characterization (grain size and atterberg limits) at each test pit
 - v) Laboratory CBR (Un-soaked and 4-days soak compacted at energy levels)
 - vi) If any other test will be required for design of flexible pavement as per IRC-37,2018 should be conducted by the consultant.

3.6) Field Investigation- Bridge and culverts

- i) Assessment of adequacy of water way in project corridor in terms of bridges, culverts and cross drainage works and to provide for balancing cross drainage structures in case of deficiencies.
- ii) If any existing structure is available, therefore all parameters should be given by the consultant. The condition of existing structure shall be carried out by the consultant.

4.0) Design and drawings:

- i) Detail design and drawing of road containing horizontal and vertical alignment, cross sections, design of high embankment, if any pavement design consisting of overlay design and new pavement design.
- ii) Design of new structures like culverts & guard wall.
- iii) Design and drawing of drainage scheme like construction.
 - vii) Flexible Pavement should be designed based on IRC-37 2018 and same should be vetted from any government origination such as Jadavpur, N.I.T, IIT etc.(Cost of design vetting charges should be borne by the consultant).
- v) Location of utilities, trees and encroachment.

5.0) Reporting, Estimate documents

Consultant shall prepare the following

- i) Detail project report acceptable form with GA and detail drawing, Investigation report, Design conclusion.
- ii) Estimate of quantities, analysis of rate and preparation of bill of quantities
- iii) Estimate shall include cost of required relocation of utilities after collecting quotation/detailed estimate from respective departments/ authorities and cost of cutting/ replantation of required number of trees.

6.0) Reports to ADDA

Main report: This report will represent the project background, details of survey and investigations, inferences, designs etc. broadly pertaining to topographic survey, traffic studies, design of alignment and profile of road, pavement investigations and design, investigations pertaining to culvert, new structure, protection work and drains and rehabilitation of old structure if any, Drainage studies and design, recommendations and conclusions. Six hard copies in colour print of drawing in A3/A2 size print and three soft copies of DPR (including a copy in editable format) should be submitted in consultation with the Executive Engineer, Asansol, ADDA.

Technical specification:-Unless other-wise required or proposed by consultant, MORTH&H specification for road and culvert works shall be adopted.

Rate analysis of all items of works should be adopted as per West Bengal Public Work (Roads) Directorate Scheduled of Rates. In case of items for which rate is not available in West Bengal PW(R) schedule, consultant shall use PWD SOR or analysis rate on the basis of market rate. In case Data Book published by IRC, latest corrigendum, addendum, circular, notification, amendments published by MORTH&H or Govt. of India, Govt. of West Bengal shall be taken into consideration including for any statutory payment, currently applicable in State of West Bengal.

Bill of quantities:- Detailed item-wise estimate and framing of sub-head wise and item wise bill of quantities (Priced/Unpriced) with rate analysis.

Road Land Documents:- ROR/other road land documents collected from respective BL&LRO offices/ other offices is to be submitted in separate volume.

Drawing (in suitable volumes acceptable to employer)

Key Map, Index map, Location plan in state and district map.

Detailed Plan and longitudinal Section (in acceptable scale) with OGL and FRL showing CDs, Horizontal & Vertical curves.

Detailed cross section @ 50m interval of proposed alignment and at interface sector with culverts, protective works etc along proposed alignment within ROW and typical cross section of pavement.

Utility relocation map if any.

Detailed working drawings for individual culvert and protective works, drain if any.

Drawing of road marking, road furniture, bus bays and passenger shelter etc in any.

- (ii) A detailed power point presentation covering all features of DPR. Correction/modification if any, suggested by the screening committee to be incorporated by the consultant and final presentation is to be submitted in editable format in CD.

B. **Consultant must submit, in separate sealed covers the following documents.**

- a) Technical Bid - Technical bid should contain PAN, P. Tax registration certificate, Trade license, GST registration certificate, Earnest Money of Rs.5,000/- in the form of bank draft in favour of ADDA payable at Asansol, Credential (Completion Certificate). Document in support of this should be submitted.

Financial bid should contain only the price bid. The rates are to be offered in form (included in Appendix-A) in the company's letterhead pad in sealed cover on basis of per kilometer.

- c) Technical bid will be opened first and if specific documents are found acceptable as per terms and conditions laid down above, the second part that is financial bid will be opened on the same day or at a later date subject to clarification of any points related to technical bid. No conditional quotation will be accepted and the Executive Engineer, ADDA reserves the right to reject it without showing any reason.

- d) The sealed envelope should be properly super scribed as "Technical Bid & Financial Bid for Architectural &

- f) One agreement should be made between the successful L-1 bidder and this authority, after issuing the work order an amount should be deposited by the bidder to this authority as per notification no. 452-A/PW/O/10C-35/10 dated 26.07.2011 of Public works Department govt. of WB.
- g) All deduction should be made from the bill as per government rule.

B. Schedule of dates:

1. Last date of submission of Quotation up to **2:30 p.m.** on **27.12.2021**
2. Opening of Technical and Financial Bid at **3.00 p.m.** on **27.12.2021**

C. Earnest Money:

Earnest money Rs. 5,000.00 will be submitted in the form of bank draft at the time of submission. Difference amount between 2% of quoted amount and Rs. 5,000.00 is to be submitted by the successful L1 bidder before issuance of work order. Bank draft should be issued by any Nationalized Bank in favour of ADDA payable at Asansol.

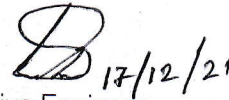
D. Security Deposit :

3% of quoted amount i.e the security money will be released after six month from date of completion.

The right of final acceptance of the proposal of consultant is entirely vested with the Executive Engineer, ADDA, Asansol who reserves the right to accept or reject any or all the financial and technical bid in full or parts without assigning any reason whatsoever. The decision of this authority in respect of opening of the financial bid shall be final.

NOTE: 1. In case of any Unscheduled Holiday on the aforesaid dates, the next working date will be treated as scheduled prescribed date for the same purpose.

2. Before quoting rate the bidder should visit the site and should be fully acquainted with it.
3. For any details the bidder can visit ADDA Office, Asansol.
4. Undersigned is not disbursing authority of the following works.


Executive Engineer,
Asansol-Durgapur Development Authority
Asansol

Memo No. ADDA/ASN/ED/NIQ-10(2021-2022)/607

Dated. 17.12.2021

Copy forwarded to:

1. The Hon'ble MIC of LAW & PWD Dept., Govt. of W.B.
2. The Hon'ble Chairman, ADDA.
3. The Chief Executive Officer, ADDA
4. The A.E.O. ADDA, Asansol .
5. The F.O, ADDA, with a request to be present or send his representative during tender opening on specified date & time.
6. The Assistant Engineer (Civil) , ADDA, Asansol.
7. The S.A.E., A.D.D.A, Asansol
8. Notice Board, ADDA, Asansol/Durgapur.
9. Sri Pradip Banerjee with the request to upload the same on ADDA website.
10. File Copy


Executive Engineer,
Asansol-Durgapur Development Authority
Asansol

APPENDIX – A

(NIQ No.....)

Bill of Quantity (B.O.Q) in connection with the work of "Widening & Strengthening of Black Top road from Air Strip to Rangapara Bus Stand, Dharampur via IISCO Tunnel Gate, Burnpur in the District of Paschim Bardhaman."

(To be filled up by the agency in letter head pad)

Sl no.	Description of work	Quantity	Unit	Rate	Amount (Rs.)
1.	"Widening & Strengthening of Black Top road from Air Strip to Rangapara Bus Stand, Dharampur via IISCO Tunnel Gate, Burnpur in the District Paschim Bardhaman."				
		7.00K.M.	Per Km		
	Total Amount (Rs.)				
	18% GST (Rs)				
	Grand Total Amount (Rs.)				

I/We agree to carry out the work mentioned herein at the Grand total amounting to Rs.....(in figures)

(Rupees.....) only abiding by all terms & conditions stipulated in NIQ with full satisfaction of QIA.

Signature of quotationer.....

Date.....

(Name in capital letter)