Bid document comprises of:

i. Addenda to Standard bidding document page 1-18

ii. Set of standard Bidding Document

iii. Bill of Quantities page 1 to 21

Sold To:

NAME OF WORK: Widening and Strengthening of Narsan- Harjolijat-Mundlama-Landhora_Zorasi-Budahedi-Badheri Rjajputana motor road under CRF

Office of the Superintending Engineer
9th Circle,
Public Works Department,
Dehradun

( Construction Division, P.W.D., Roorkee )
ADDENDA TO
STANDARD BIDDING DOCUMENT
PROCUREMENT OF CIVIL WORKS

NAME OF WORK : Widening and Strengthening of Narsan- Harjolijat-
Mundlana-Landhora_Zorasi- Budahedi-Badheri
Rjajputana motor road under CRF

Office of the Superintending Engineer
9th Circle,
Public Works Department,
Dehradun

(Construction Division, P.W.D., Roorkee)
Amendment in the Standard Bidding Document enclosed with the Tender Documents

1. Bids from Joint ventures are permitted for projects costing more than Rs. 25 crore in all States other than North Eastern Region and J & K, where this threshold shall be Rs. 15 crore, subject to the conditions given in the Annex-I.

2. Clause 4.4 of Section I shall stand deleted.

3. Clause 4.5 to 4.8 of Section I shall stand amended as per qualification criteria given in Annex-I.

4. Clause 50 of Conditions of Contract shall stand deleted.

5. The defined term of the contract in Clause 1.1 of Conditions of Contract shall be read as given below:

   The Contract is the contract between the Employer and the Contractor to execute, complete and maintain the Works till the completion of Defects Liability Period. It consists of the documents listed in Clause 2.3 below.

6. Clause 51.1 of Conditions of contract shall be read as given below:

   The Employer shall make advance payment (not be paid in less than two installments except in special circumstances for which the reasons to be recorded in writing) to the Contractor of the amounts stated in the Contract Data, against provision by the Contractor of an Unconditional bank Guarantee in a form and by a bank acceptable to the Employer in amounts and currencies equal to be at least 110% of the advance payment. The Guarantee shall remain effective until the advance payment has been repaid, but the amount of the Guarantee shall be progressively reduced by the amounts repaid by the Contractor. The mobilization advance would be deemed as interest bearing advance at an interest rate of 10% to be compounded quarterly.

7. Section 4 of the Contract data may be read as given below:

   The Defects Liability Period is three years from the date of completion.

   Clause 13.4 of ITB “the rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of Clause 47 of the conditions of the contract (For contract more than 12 months period).” to be treated as deleted.
GOVERNMENT OF UTTARAKHAND
AGREEMENT NO C.R.F.
(CIVIL WORKS)


PERIOD OF SALE OF BIDDING DOCUMENT : From 05.06.2011 To 13.06.2011

TIME AND DATE OF PRE-BID CONFERENCE : Date 10.06.2011 Time 12:00 Hours

LAST DATE AND TIME FOR RECEIPT OF BIDS : Date 14.06.2011 Time 15.00 Hours

*TIME AND DATE OF OPENING TECHNICAL BIDS : Date 15.06.2011 Time 15.00 Hours

*TIME AND DATE OF OPENING FINANCIAL BIDS : TO BE ANNOUNCED LATTER

PLACE OF OPENING OF BIDS : Office of the Superintending Engineer 9th circle. Public Works Department, Dehradun

OFFICER INVITING BIDS : Superintending Engineer 9th circle. Public Works Department, Dehradun

* Should be the same as for the deadline for receipt of bids or promptly thereafter.
GOVERNMENT OF UTTARAKHAND
INVITATION FOR BIDS (IFB)
NATIONAL COMPETITIVE BIDDING

Letter No. 3265 /IC-9 / 2010-11                                      Date : 09/05/2011

The Superintending Engineer, 9th Circle, Public Works Department, Dehradun invites bids for the construction of work detailed in the table given below. The bidders may submit bids for the following work.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Work</th>
<th>Approximate value of work</th>
<th>Bid Security</th>
<th>Cost of Document</th>
<th>Period of Completion</th>
<th>Validity of bid</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Widening and Strengthening of Narsan-Harjoli Jat – Mundlana – Landhora – Zorasi – Budahedi -Badheri Rajputana motor road under CRF.</td>
<td>Rs. 38.45 Crore</td>
<td>Rs.50.00 Lacs</td>
<td>Rs.5000.00+ 13.50% Vat</td>
<td>18 months</td>
<td>120 days</td>
</tr>
</tbody>
</table>

2-Bidding document may be purchased from one of the offices as listed below from Date 05-06-2011 to 13-06-2011 by paying a non-refundable fee as indicated in the form of cash or demand draft on any scheduled bank payable at “as mentioned below” in favour of as mentioned below. Interested bidders may obtain further information at the same address. Bidding documents requested by mail will be dispatched by registered/ speed post on payment of an extra amount of Rs. 500.00 to any of the offices mentioned below. The concerning office will not be held responsible for the postal delay if any, in the delivery of the documents or non-receipt of the same.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of Office/Address</th>
<th>Phone/Fax No.</th>
<th>DD in favour of</th>
<th>Payable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chief Engineer (Garhwal) P.W.D., Pauri (Uttarakhand)</td>
<td>01368-222374</td>
<td>Executive Engineer, C.D., P.W.D., Roorkee</td>
<td>Roorkee</td>
</tr>
<tr>
<td>2</td>
<td>Superintending Engineer, 9th Circle, P.W.D., Dehradun (Uttarakhand)</td>
<td>0135- 2531152</td>
<td>-do-</td>
<td>Roorkee</td>
</tr>
<tr>
<td>3</td>
<td>Engineer Liaison officer (ELO), MORT&amp;H, Office of the Chief Engineer Level-1 P.W.D., Dehradun (Uttarakhand)</td>
<td>0135- 2531125</td>
<td>-do-</td>
<td>Roorkee</td>
</tr>
<tr>
<td>4</td>
<td>Executive Engineer, Construction Division P.W.D., Roorkee (Uttarakhand)</td>
<td>01332- 279215</td>
<td>-do-</td>
<td>Roorkee</td>
</tr>
</tbody>
</table>

3-Bids must be accompanied by security of the amount specified for the work in the table above, payable at Roorkee and drawn in favour of Executive Engineer, Construction Division P.W.D., Roorkee. Bid security will have to be in any one of the forms as specified in the bidding documents and shall have to be valid for 45 Days beyond the validity of the bid.

4-Bid will be received in single envelope with separate sealed technical and price bid in original & copy in the tender box in any one of the above offices (Sl. no. 2) upto 15:00 hours on date 14-06-2011 after which the box will be sealed. If the office happens to be closed on the date of receipt of the bids. The bids will be received on the next working day at the same time and venue

5-Technical Bid shall be opened on date 15-06-2011 at 15:00 hours in the presence of bidders who wish to attend in the office of Superintending Engineer, 9th Circle, P.W.D. Dehradun by Evaluating Committee under the Chairmanship of chief Engineer(Garhwal)P.W.D.Pauri.

6-A Pre-Bid meeting will be held on date 10-06-2011 at 12:00 hrs. at the office of Superintending Engineer, 9th Circle, P.W.D., Dehradun at Yamuna Colony, Dehradun (Uttarakhand) to clarify the issues and to answer questions on any matter that may be raised.

7-The bid must accompanied a Rs. 100.00 general non Judicial stamp paper and writing the bid validity and signed on Rs. 1.00 revenue stamp pasted on the said stamp paper.

8-The tender can be downloaded from the Uttarakhand Govt. Website www.gov.ua.nic.in from date 05-06-2011 to 13-06-2011. Tenders downloaded through internet shall have to enclose a separate DD in favour of Executive Engineer, Construction Division ,P.W.D. Roorkee, payable at Roorkee for Rs. 5000.00 + 13.50% Vat, towards the cost of tender document in addition to bid security. The Bank Draft must be get issued by the authorized Bank before the date 13-06-2011. The tenders downloaded after the date 13-06-2011 (17.00 hrs) and not enclosed a separate D.D. as prescribed above will not be entertained.

9- The bidding documents to be submitted should be properly bound and page numbered with index otherwise the bid shall not be considered.

10- Other details can be seen in the bidding documents.

11. This project includes reconstruction of road as well as construction of Major Bridge, hence sufficient experience regarding major bridge construction is required along with road constructions.

Superintending Engineer, 9th Circle, P.W.D., Dehradun
1. Name of the Employer is: Superintending Engineer  
   9th circle Public Work Department, Dehradun  
   Govt. of Uttarakhand  
   [Cl. 1.1]

2. The last five years:  
   2006-2007  
   2007-2008  
   2008-2009  
   2009-2010  
   2010-2011

3. The annual financial turn over in the last five years is Rs 15.38 Crores as per clause 4.5A(a)  
   (Rs Fifteen Crores thirty eight Lacs)

4. Value of work is: Rs 15.38 Crores as per clause 4.5A(b)  
   (Rs Fifteen Eight Crores thirty eight lacs)

5. Deleted

6. The cost of electric work is Rs .......... N/A

7. The cost of water supply/sanitary works is Rs .......... N/A

8. Liquid assets and/or availability of credit facilities is: Rs 3,845 Crores  
   (Rs Three Crores eighty four Lacs fifty Thousand)

9. Price level of the financial year: 2010-11

10. The pre-bid meeting will take place at:  
    Office of the Superintending Engineer  
    9th circle Public Work Department, Dehradun.  
    [Cl. 9.2.1]

11. The technical bid will be opened on 15.06.2011 at 15:00  
    in the Office of the Superintending Engineer  
    9th circle Public Work Department, Dehradun.

12. Address of the Employer:  
    Office of the Superintending Engineer  
    9th circle Public Work Department, Dehradun.

13. Identification:  
    - Bid for: Widening and Strengthening of Narsan- Harolijat- 
               Mundiana-Landhora-Zorasi-Budahedi-Badheri Rajputana 
               motor road under CRF  
   [Cl. 19.2(b)]
Bid reference No: NH-28014/1/2008-UR/CRF/NH-II Dated 31/03/2011

14. The bid should be submitted latest by Date 14.05.2011 Time 15.00 Hours [ Cl. 20.1(a)]

15. The bid will be opened at ................ Date 15.06.2011 Time 15.00 Hours [ Cl. 23.1 ]

Office of the Superintending Engineer
9th circle Public Work Department, Dehradun.

16. The Bank Draft in favour of ................. Executive Engineer
Construction Division, P.W.D.,
Roorkee [ Cl. 34.1 ]

17. The name of Dispute Review Expert is .......... to be intimated later [ Cl. 36.1 ]

18. Escalation factors (for the cost of works executed and financial figure to a common base value for works completed)

<table>
<thead>
<tr>
<th>Year before</th>
<th>Multiply factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>1.1</td>
</tr>
<tr>
<td>Two</td>
<td>1.21</td>
</tr>
<tr>
<td>Three</td>
<td>1.33</td>
</tr>
<tr>
<td>Four</td>
<td>1.46</td>
</tr>
<tr>
<td>Five</td>
<td>1.61</td>
</tr>
</tbody>
</table>

Superintending Engineer
9th Circle Public Work Department, Dehradun
1. The Employer is

Name: Superintending Engineer
Address: 9th circle Public Works Department, Dehradun
Govt. of Uttarakhand
Name of authorized Representative: Superintending Engineer, 9th circle, Public Works Department, Dehradun

2. The Engineer is: Superintending Engineer, 9th circle, Public Works Department, Dehradun

Name of authorized Representative: Executive Engineer, Construction Division, P.W.D. Roorkee

3. The Dispute Review Expert appointed jointly by the Employer and Contractor is: To be intimated later

*Name: ____________________________
*Address: ____________________________

4. The Defect Liability Period is Three year from the date of completion.

5. The Start Date shall be 7 days from the date of issue of the notice to proceed with the work.

6. The Intended Completion Date for the whole of the Works is 6 months after start of work with the following milestones:

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Percentage</th>
<th>Period from the start date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30%</td>
<td>6 months</td>
</tr>
<tr>
<td>2</td>
<td>70%</td>
<td>13 months</td>
</tr>
<tr>
<td>3</td>
<td>100%</td>
<td>18 months</td>
</tr>
</tbody>
</table>

7. The site is located at km Between Narsan- Harjolijat- Mundlana-Landhora-Zorasi-Budahedi-Badheri Rjajputana

8. The name and identification number of the Contract is: Widening and Strengthening of Narsan-Harjolijat- Mundlana – Landhora - Zorasi-Budahedi-Badheri Rjajputana motor road under CRF

The work shall, inter alia, include the following, as specified or as directed:

(A) **Road Works**:
- Site clearance, setting out and layout, widening of existing carriageway and strengthening including camber correction, construction of new road/parallel service road, bituminous payments remodeling / construction of junctions, intersections, bus bays laybys, supplying and placing of drainage channels, flumes, guard posts and guard other related items, construction/extension of cross drainage works, small bridges/ culvert, approaches and other related stones, road marking, road signs and kilometer/hectometer stones, protective works for roads / bridges, all aspects of quality assurance of various components of the works; rectification of the defects in the completed works during the Defect Liability Period, submission of "As built " drawings and other related documents and other item of works as may be required to be carried out for completing the works in accordance with drawings and provisions of the contractor to ensure safety.

(B) **Bridge Works**:
- Site clearance, setting out, provision of foundations, piers abutments and bearings; prestressed / reinforced cement-concrete superstructure; wearing coat, hand railings, expansion joints, approach slabs, drainage spouts / down take pipes, arrangements for fixing light posts, water mains, utilities etc, provisions of suitably designed protective works; providing wing/return walls ; provision of road markings, road signs etc; all aspects of quality assurance; clearing of site and handing over the works on completion; rectification of the defects during the Defect liability period and submission of "As built" drawings and other related documents; and other items of work as may required to be carried out for completing the works in accordance with the drawings and the provisions of the contract to Insure safety.

(C) **Other Items**:
- Any other items as required to fulfill all contractual obligations as per the Bid documents.

10. The following documents also form part of the contract: [Cl.2.3(9)]
   - G.P.W. Form - 8
11. The law which applies to the Contract is the law of Union of India. [Cl.3.1]
12. The language of the Contract document is English. [Cl.3.1]
13. Limit of subcontracting 50% of the Initial Contract Price [Cl.7.1]
14. The schedule of Other Contractor N/A [Cl.8]
15. The Schedule of Key Personal As per Annex-II to Section I [Cl.9]
16. The minimum insurance cover for physical property, injury and death is Rs 5 lakhs per occurrence with the number of occurrences limited to four. After each occurrence, contractor will pay additional premium necessary to make insurance valid for four occurrences always.

17. Site investigation report

18. The Site Possession Date Shall be: From the date of start of work as issued by the competent authority.

19. Fees and type of reimbursable expenses to be paid to the Dispute Review Expert (To be inserted later)

20. Appointing Authority for the Dispute Review Expert – Council, Indian Road Congress, New Delhi

21. The period for submission of the programme for approval of Engineer shall be 21 days from the issue of the Letter of Acceptance.

22. The period between programme updates shall be 30 days.

23. The amount to be withheld for late submission of an updated programme shall be Rs 30.00 lacks

24. The following events shall also be Compensation events: Substantially adverse ground conditions encountered during the course of execution of work not provided for in the bidding document
   (i) Removal of underground utilities detected subsequently
   (ii) Significant change in classification of soil requiring additional mobilization by the contractor, e.g. ordinary soil to rock excavation.
   (iii) Removal of unsuitable material like marsh, debris dumps, etc not caused by the contractor
   (iv) Artesian conditions
   (v) Seepage, erosion, landslide
   (vi) River training requiring protection of permanent work
   (vii) Presence of historical, archeological or religious structures, monuments interfering with the works
   (viii) Restriction of access to ground imposed by civil, judicial, or military authority

25. The currency of the Contract is Indian Rupees.

26. The formula for adjustment of prices are: Not Applicable

27. The proportion of payments retained (retention money) shall be 6% from each bill subject to a maximum of 5% of final contract price.

28. Amount of liquidated damages for delay in completion of works
   For Whole of work (1/2000)th of the Initial Contract Price, rounded off to the nearest Thousand, per day.
   For sectional completion (wherever specified, in item 6 of Contract Data) (1/200)th of initial contract price for 5 Km section, rounded off to the nearest Thousand, per day.
29. Maximum limit of liquidated damage for delay in completion of work. 10 percent of the Initial Contract Price rounded off to the nearest thousand. [Cl.49]

30. Amount of Bonus for early completion of whole of the works. Deleted [Cl.50]

31. Maximum limit of Bonus for early completion of whole of works. Deleted [Cl.50]

32. The amounts of advance payment are:

<table>
<thead>
<tr>
<th>Nature of Advance</th>
<th>Amount (Rs.)</th>
<th>Conditions to be fulfilled</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Mobilization</td>
<td></td>
<td>As per modified rule of ministry’s circular no. RW/NH-24035/4/2008-P&amp;M/PIC dated 01/04/2011</td>
</tr>
<tr>
<td>ii) Equipment</td>
<td>90% for new and 50% of depreciated value for old equipment. Total amount will be subject to a maximum of 5% of the contract price. After equipment is brought to site (provided the Engineer is satisfied that the equipment is required for performance of the contract and on submission of unconditional Bank Guarantee for amount of advance.</td>
<td></td>
</tr>
</tbody>
</table>
| iii) Secured advance for non-perishable materials brought to site | 75% of invoice value. a) The materials are in accordance with the specification for works; b) Such materials have been delivered to site, and are properly stored and protected against damage or deterioration to the satisfaction of the Engineer. The contractor shall store the bulk material in measurable stacks. c) The Contractor’s record of the requirements, orders, receipt and use of materials are kept in a form approved by the Engineer and such records shall be available for inspection by the Engineer; d) The contractor has submitted with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of the valuation of the materials and providing evidence of the ownership and payment thereof; e) Ownership of such materials shall be deemed to vest in the Employer for which the
The contractor has submitted an Indemnity Bond in an acceptable format; and
f) The quantities of the materials are not excessive and shall be used within reasonable time as determined by the Engineer.

(The advance payment will be paid to the Contractor no later than 28 days after fulfillment of the above conditions).

33. Repayment of advance payment for mobilization and equipment: [CI.51.3]
The advance loan shall be repaid with percentage deductions from the interim payments certified by the Engineer under the contract. Deductions shall commence in the next Interim Payment Certificate following that in which the total fall such payments to the contractor has reached not less than 20 percent of the contract price or 6 (six) months from the date of payment of first in statement of advance, which ever period concludes earlier, and shall be made at the rate of 20 percent of the amount of the Interim Payment Certificate until such time as the loan has been repaid, always provided that the loan shall be completely repaid prior to the expire of the original time for completion pursuant to Clause 17 and 28.

34. Repayment of secured advance: [CI.51.4]
The advance shall be repaid from each succeeding monthly payment to the extent materials [For which advance was previously paid pursuant to Clause 51.4 of G.C.C.] have been incorporated into Works.

35. The Securities shall be for the following minimum amount equivalent as a percentage of the Contract Price.
Performance Security for 5 percent of contract price plus Rs. ............ (to be decided after evaluation of the bid) as additional security in terms of ITB Clause 29.5.
The standard form of Performance Security acceptable to the Employer shall be an unconditional Bank Guarantee of the type as presented in Section 8 of the Bidding Documents.

36. The Schedule of operating and Maintenance Manuals……………..N/A [CI.58]

37. The date by which “as-built” drawings (in scale as directed) in 2 sets are required is within 28 days of issue of certificated of completion of whole or section of the work, as the case may be.

38. The amount to be withheld for failing to supply “as built” drawings by the date required is Rs 10.00 Lakhs.

39. The following events shall also be fundamental breach of contract: “The Contractor has contravened Sub – Clause 7.1 and Clause 9 of GCC”.

40. The percentage to apply to the value of the work not completed representing the Employer’s additional cost for completing the Works shall be 20 per cent
In addition to the above:

1. The contractor shall quote his rates inclusive of the following elements:
   i. Site accommodation, setting up plant, access road, water supply, electricity general site arrangements.
   ii. Office furniture, equipment and communications
   iii. Expenditure on:
       a. Corporate office of contractor
       b. Site supervision
       c. Documentation and “as built” drawing
   iv. Mobilization / de-mobilization of resources
   v. Labour camps with minimum amenities and transportation to work sites
   vi. Light vehicles for site supervision including administrative and managerial requirements
   vii. Laboratory equipment and quality control including field and laboratory testing
   viii. Minor T&P and survey instruments and setting out works, including verification of line, dimensions, trial pits and bore holes, where required
   ix. Watch and ward
   x. Traffic management during construction
   xi. Expenditure on safeguarding environment
   xii. Sundries
   xiii. Financing Expenditure
   xiv. Sales/Turn over tax
   xv. Work Insurance/compensation

2. Relevant clauses of the MORTH Specification for Road and Bridge works (published by the Indian Road Congress) will be applicable for detailed Specification for the respective work.

Superintending Engineer
9th Circle Public Work Department, Dehradun
2.6 QUALIFICATION CRITERIA

2.6.1 Qualification will be based on Applicant’s meeting all the following minimum pass/ fail criteria regarding the Applicant’s general and particular experience, personnel and equipment capabilities, and financial position, as demonstrated by the Applicant’s responses in the forms attached to the Letter of Application (specified requirement for joint ventures are given under para 2.7 below). Subcontractors’ experience and resources shall not be taken into account in determining the applicant’s compliance with qualifying criteria.

To qualify for more than one contract, the applicant must demonstrate having experience and resources sufficient to meet the aggregate of the qualification criteria for each contract given in paragraphs 2.6.4., 2.6.5, 2.6.6 and 2.6.9 below.

2.6.2 Base Year and Escalation

The base year shall be taken as (particular year to be mentioned).

Following enhancement factors will be used for the costs of works executed and the financial figures to a common base value for works completed in India.

<table>
<thead>
<tr>
<th>Year before</th>
<th>Multiplying factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>1.10</td>
</tr>
<tr>
<td>Two</td>
<td>1.21</td>
</tr>
<tr>
<td>Three</td>
<td>1.33</td>
</tr>
<tr>
<td>Four</td>
<td>1.44</td>
</tr>
<tr>
<td>Five</td>
<td>1.61</td>
</tr>
</tbody>
</table>

Applicant should indicate actual figures of costs and amount for the works executed by them without accounting for the above mentioned factors.

In case the financial figures and value of completed works are in foreign currency, the above enhanced multiplying factors will not be applied. Instead, current market exchange rate (State Bank of India BC Selling rate as on the last date of submission of the bid) will be applied for the purpose of conversion of amount in foreign currency into Indian rupees.

2.6.3 General Experience

The Applicant shall meet the following minimum criteria:

(a) Average annual turnover (defined as billing for works in progress and completed in all classes of civil engineering construction works only) over the last five year of 40 percent of the value of contract / contracts applied for.

(b) Experience in successfully completing or substantially completing at least one contract of highway (road and / or bridge works) airport runway of at least 40 percent of the value of proposed contract within the last five year.

The works may have been executed by the Applicant as prime contractor or as a member of joint venture of sub contractor. As sub contractor, he should have acquired the experience of execution of all major items of works under the proposed contract. In case a project has been
executed by a joint venture, weightage towards experience of the project would be given to each joint venture in proportion to their participation in the joint venture.

Substantially completed works means those works which are at least 90% completed as on the date of submission (i.e. gross value of works done up to the last date of submission is 90% or more of the original contract price) and continuing satisfactorily.

For these a certificate from the employer shall be submitted along with the application incorporating clearly the name of the work, Contract value, billing amount date of commencement of works, satisfactory performance of the contractor and any other relevant information.

### 2.6.4 Personnel Capabilities

The Applicant must have suitably qualified personnel to fill the following positions. The applicant will supply information on a prime candidate and an alternate for each position, both of whom should meet the experience requirements specified below:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Position</th>
<th>Total experience (Years)</th>
<th>In similar works (years)</th>
<th>As manager of similar works (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Project Manager</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Other Positions</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

( Suggested lists is given in Annexure-I)

### 2.6.5 Equipment Capabilities

The Applicant should own or should have assured ownership to the following key items of equipment, in full working order, and must demonstrate that, based on known commitments; they will be available for use in the proposed contract.

<table>
<thead>
<tr>
<th>S.No</th>
<th>Equipment type and characteristics</th>
<th>Minimum number required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Suggested list given in Annexure-II)

### 2.6.6 Financial Position

The Applicant should demonstrate that he has access to, or has available, liquid assets (aggregate of working capital, cash in hand and uncommitted bank guarantees) and / or credit facilities of not less than 10 percent of the value of the contract / contracts applied for( construction cash-flow may to taken as 10 percent of the estimated value contract / contracts)

2.6.7. The audited balance sheets for the last five years should be submitted, which must demonstrate the soundness of the Applicant's financial position, showing long-term profitability including an estimated financial projection for the next two years. If necessary, the Employer will make inquiries with the applicant's bankers.
2.6.8 Litigation History

The Applicant should provide accurate information on any litigation or arbitration resulting from contracts completed or under execution by him over the last five years. A consistent history of awards against the Applicant or any partner of a joint venture may result in failure of the applicant.

2.6.9 Bid Capacity

Applicants who meet the minimum qualification criteria will be qualified only if their available bid capacity at the expected time of bidding is more than the total estimated cost of the works. The available bid capacity will be calculated as under:

Assessed Available Bid Capacity = (A*N*2-B), Where

A = Maximum value of works executed in any one year during the last five years (updated to the current price level ) rate of inflation may be taken as 10 percent per year which will take into account the completed as well as works in progress;

B = Value at current price level of the existing commitments and ongoing works to be completed during the next ______year (period of completion of works for which bids are invited); and

N = Number of year prescribed for completion of the works for which the bids are invited.

Note: In case of a Joint Venture, the available bid capacity will be applied for each partner to the extent of his proposed participation in the execution of the works.

2.6.10 Disqualification

Even though the Applicants meet the above criteria, they are subject to be disqualified if they have:

- made misleading of false representation in the form, statements submitted; and/ or
- Records of poor performance such as abandoning the, work, rescinding of contract for which the reasons are attributable to the non- performance of the contractor; consistent history of litigation awarded against the Applicant or financial failure due to bankruptcy. The rescinding of contract of a joint venture on account of reasons other than non-performance, such as Most Experienced partner of joint venture pulling out, court directions leading to breaking up of a joint venture before the start of work, which are not attributable to the poor performance of the contractor will, however, not affect the qualification of the individual partners.

2.7 JOINT VENTURE

2.7.1 Joint ventures must comply with the following requirements:

(a) Following are the minimum qualification requirements;

(i) The lead partner shall meet not less than 50 percent of all the qualifying criteria given in para 2.6.3 & 2.6.6 above. The joint venture must collectively satisfy the criteria of para 2.6.3 & 2.6.6 above. The experience of the other joint venture partners shall be considered if it is not less than 30 percent of the qualifying criteria given para 2.6.3 & 2.6.6 above. However, in case one of the
joint venture, partners id proposed to be included primarily to provide financial strength to the joint venture, such joint venture partner shall have to commit to provided liquidity support to the project to the extent of 10 percent of the value of the contract.

(II) The joint venture must satisfy collectively the criteria of para 2.6.4 and 2.6.5 above for which purpose the relevant figures for each of the partners shall be added together to arrive at the joint venture' total capacity individual members must each satisfy the requirements of para 2.6.7 & 2.6.8 above.

(b) The formation of a joint venture after prequalification, any change in a pre-qualified joint venture, will be subject to the written approval of the Employer prior to the deadline for submission of bids. Such approval shall be denied if (i) partners withdraw from a joint venture and the remaining partners do not meet the qualifying requirements; (ii) the new partners to a joint venture are not qualified individually or as another joint venture; or (iii) in the opinion of the Employer, a substantial reduction in competition may result.

(C) Bid shall be signed so as legally bind all partners, jointly and severally, and shall be submitted with a copy of the venture agreement providing the 'joint and several' liability with respect to the contract.

2.7.2 Qualification of a joint venture does not necessarily qualify any of its partners individually or as partner in any other joint venture. In case of dissolution of a joint venture, each one of the constituent firms may qualify it they meet all the qualification requirements, subject to the written approval of the Employer
### Annexure-I

#### Minimum key personnel for the project

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Personal</th>
<th>Qualification</th>
<th>Lote Size up to Rs 50 Million</th>
<th>Rs 51-200 Million</th>
<th>Rs 201-500 Million</th>
<th>Rs 501-1000 Million &amp; above</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Project Manager</td>
<td>B.E. Civil +10 Years Exp</td>
<td>1</td>
<td>1 No</td>
<td>1 No</td>
<td>1 No</td>
</tr>
<tr>
<td>2</td>
<td>Site Engineer</td>
<td>B.E. Civil +03 Years Exp</td>
<td>1</td>
<td>2 No</td>
<td>4 No</td>
<td>6 No</td>
</tr>
<tr>
<td>3</td>
<td>Plant Engineer</td>
<td>B.E. Mech. +03 Years Exp or Dip Mech.+ 7 Years Exp</td>
<td>1</td>
<td>1 No</td>
<td>1 No</td>
<td>2 No</td>
</tr>
<tr>
<td>4</td>
<td>Quantity Surveyor</td>
<td>B.E. Civil +07 Years Exp or Dip Civil+ 7 Years Exp</td>
<td>1</td>
<td>1 No</td>
<td>1 No</td>
<td>2 No</td>
</tr>
<tr>
<td>5</td>
<td>Soil &amp; Material Engineer</td>
<td>B.E. Civil +07 Years Exp or Dip Civil+ 7 Years Exp</td>
<td>1</td>
<td>1 No</td>
<td>1 No</td>
<td>1 No</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td>5</td>
<td>6 No</td>
<td>8 No</td>
<td>12 No</td>
</tr>
</tbody>
</table>

### Annexure-II

#### List of plant equipment to be deployed on contract work

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Type of Equipment</th>
<th>Maximum Age as on 1-6-2011</th>
<th>Up to Rs 50 Million</th>
<th>Rs 51-200 Million</th>
<th>Rs 201-500 Million</th>
<th>Rs 501-1000 Million &amp; above</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tipper Trucks</td>
<td>5-7</td>
<td>6</td>
<td>10</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>2</td>
<td>Motor Grader</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Dozer</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>Front and Loader</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>Smooth Wheeled Roller</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>Vibratory Roller</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>Hot Mix Plant with Electronic controls (Minimum 80/100 TPH Capacity)</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>Paver Finisher with Electronic Sensor</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>Water Tanker</td>
<td>5-7</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>Bitumen Sprayer</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>Tandem Roller</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>Concrete Mixer with integral Weight Patching Facility</td>
<td>5</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>Concrete Batching and Mixing plant (Minimum Capacity 15cum/ hour)</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>Concrete paver capable of paving 7.5m width in one single pass including all accessories. Such as automatic dowels bar insertor, integral Vibratory equipment for applying curing compound joint cutting etc.</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>Concrete Batching and mixing plant with automatic control (minimum 30cum/ hour)</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>24</td>
<td>28</td>
<td>36</td>
<td>54</td>
<td></td>
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</tbody>
</table>