

# Pre Qualification Document

for

Infrastructure Works  
(Roads, Drains, Sewerage, Water-Supply & Allied  
Civil Works)

of

Integrated Industrial Estate

In Uttaraanchal



State Industrial Development Corporation of  
Uttaraanchal Ltd.

(SIDCUL)



# STATE INDUSTRIAL DEVELOPMENT CORPORATION OF UTTARANCHAL LTD.

2-New Cantt Road, Dehradun – 248001

Phone - 0135-2743292, 2743297, 2743838, 2743837

Website:- [www.sidcul.com](http://www.sidcul.com)

N.I.T No. /SIDCUL/2005-06

Dated: September, 2005

## **INVITATION FOR PRE-QUALIFICATION FOR INFRASTRUCTURAL ROAD, PHE AND ALLIED CIVIL WORKS**

SIDCUL invites Pre-qualification bids from the reputed and experienced contractors for the infrastructural development works like Road, water supply, drainage and sewerage works for one of its industrial estates in Uttarakhand in approx. 1000 acres area. SIDCUL intends to get this work executed over 2 to 4 Packages, each of an average costing between Rs. 25 to 30 Crores. The schedule completion period of each package shall be 8 to 10 months

Pre-qualification Documents (containing all formats etc. for application and other information and instructions) can be obtained from 30<sup>th</sup> September 2005 to 20<sup>th</sup> October 2005 between 10:00 A.M. to 5:00 P.M. on all working days from ICICI Bank Rajpur Road, Dehradun on payment of document fee of Rs. 10,000 + 10% S.T. extra in the form of Cash/Crossed Demand Draft in favour of “State Industrial Development Corporation of Uttarakhand Ltd.” payable at Dehradun. For sending the tender form by post, Rs. 200/- (Two Hundred only) per set will be charged extra. However, SIDCUL will not bear any responsibility towards postal delays.

Detailed Pre-qualification Documents can be downloaded from [www.sidcul.com](http://www.sidcul.com) website and be used for submission. However, the amount towards the cost of documents shall be payable through draft at the time of submission of documents, as stated above.

MD, SIDCUL reserves the right to vary the timing accept/reject any or all applications.

The Pre-qualification documents shall be submitted to Managing Director SIDCUL, 2-New Cantt. Road, Dehradun-248001 on or before 21<sup>st</sup> October 2005 up to 3:00 P.M.

**MANAGING DIRECTOR, SIDCUL**

**INVITATION FOR PRE-QUALIFICATION FOR INFRASTRUCTURE  
WORKS AT INDUSTRIAL ESTATE IN UTTARANCHAL**

SIDCUL invites Pre-qualification Bid from the experienced, reputed and resourceful contractors for the infrastructure works at one of the Industrial Estates in Uttaranchal in approx. 1000 acres area. SIDCUL intends to get this work executed over 3 to 4 Packages, each of an average costing between Rs. 25 to 30 Crores. The schedule completion period of each package shall be 8 to 10 months

<b>Name of the Work</b>	<b>Brief Description of the Application's Scope of Work</b>
Infrastructure Works Roads, Culverts, Drains, Water Supply, Sewerage & Allied Civil Works	a) Earthwork, Filter layer Granular Sub-Base, Water Bound/Wet Mix Macadam and BM, DBM, BC, SDBC Concrete Kerbs and Kerb & Drain, Cross Drains for the Road, Construction of Median & Footpath finished with Grass-Crete pavers, supply and spreading of sweet soil for soft landscaping.  b) Providing and laying of Water Distribution System, Construction of overhead and underground RCC Water Tanks, Pump Room including all building finishes, Borewells, providing and laying of Sewer System line, Storm Water Drainage System etc.

The pre-qualification of contractors and their eligibility limit for award of contract shall be determined on basis of objectives evaluation of their past experience, technical qualification and financial capabilities on the following criteria:-

1. The Applicant must have successfully completed (as a Prime Contractor and /or as a Sub-Contractors to a Public-Sector/Corporation) at least two works/contracts in any two or more following types of projects aggregating not less than Rs. 15 Crores in last five years.
  - a) Industrial Estates
  - b) Sectoral Development
  - c) Road & Highway Projects
  - d) Site Development Projects involving water supply, sewerage, land-scaping & horticulture works.
2. The Applicant should have an annual average turnover of Rs. 18 crores in three financial years during last five years.
3. The Applicant must not have incurred any losses during the last five financial years ending March, 2005.
4. Should possess a net worth of atleast Rs. 7.50 crores. It should be supplemented with audited balance sheet

5. The Applicant shall have to provide documentary evidence that it has been actively engaged in the business in the related nature of work as described above for the past at least Five years in the role of prime and/or Sub-contractor.
6. A declaration shall have to be submitted to the effect that the Applicant's firm has not been debarred from the tendering by any Authority/Department.
7. The contractor shall supply general and comprehensive information on management/organization structure of the firm and shall make provision for suitably qualified personnel to fill the key positions as required during contract implementation. Requirement of minimum key personnel with qualification and experience is given in Annexure-I. The contractor shall give an undertaking in the Prescribed Format to provide personnel for these positions satisfying the qualification and experience requirements with the Application.
8. The contractor is required to own or have assured and immediate access through hire or lease to the key items of machinery and equipments as listed in Annexure-II, required for implementation of the project. However, no equipment advance will be provided against hired/leased equipment and machinery. The contractor shall give an undertaking in the prescribed format to provide all the plant & machinery required for the project with the Application.
9. In case of joint venture/consortium, J.V. will have to specify the consortium leader and all qualifications specified above will have to be met by consortium leader only in his own capacity. All responsibilities will also be borne by the consortium leader only in his own capacity.
10. The employer will reject a proposal for award if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question and will declare the firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract with SIDCUL if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for the contract, or in execution.
11. Even though the contractor meets the above criteria, they are subject to the disqualification if the applicant have:
  - a) Made misleading or false representation in the forms statements and attachments submitted, or
  - b) Records of poor performance during last 5 years, as on the date of application such as abandoning the work, rescinding of contract for which the reasons are attributable to the non-performance of the contractor, inordinate delays in completion, consistent history of litigation/arbitration awarded against the contractor or any of its constituents or financial failure due to bankruptcy, etc.
  - c) In case of proprietary or partnership firm, following are the disqualification in case of failure to disclose information by partners or the proprietor:

- i. Habitual legal arbitrator/plaintiff against contractee.
- ii. If, any of the partners or the proprietor is debarred by SIDCUL or any other agency of Government of India or any of the State Governments.
- iii. If, any of the partners or proprietor has a criminal history or has been convicted by any court of law for any of the offences under any Indian law.
- iv. If, any criminal proceeding is pending in any court of law in India against any of the partners or the proprietor and if any such proceedings culminate into conviction in last five years.

SIDCUL reserves its right to take appropriate action including cancellation of Pre-qualification as may be deemed fit and proper by SIDCUL at any time without requiring to give any notice to the contractor in this regard.

12. Pre-qualification Documents containing all formats etc. for application and other information and instructions can be obtained from 30<sup>th</sup> September 2005 to 20<sup>th</sup> October, 2005 between 10:00 hrs. to 17:00 hrs. on all working days from ICICI Bank Rajpur Road, Dehradun on payment of document fee of Rs. 10,000/- + 10% S.T. extra in the form of Crossed Demand Draft in favour of “State Industrial Development Corporation of Uttaranchal Limited” payable at Dehradun. For sending the tender form by post, Rs. 200/- only per set will be charged extra and the entire amount should be sent alongwith the request. However, SIDCUL will not bear any responsibility towards postal delay.
13. Sealed envelopes containing duly filled up Pre-qualification Document alongwith the document fee must reach Managing Director SIDCUL at the address for communication given below not later than 15:00 hrs. on or before 21<sup>st</sup> October, 2005 and should be clearly marked “APPLICATION FOR PRE-QUALIFICATION FOR INFRASTRUCTURE WORKS AT INDUSTRIAL ESTATE IN UTTARANCHAL.
14. Only the qualified contractors will be issued detailed tender document at a later stage as decided by SIDCUL. Applicants not found eligible shall be allowed to submit their representation (if any) within 3 days from the receipt of such information.

15. SIDCUL will not be responsible for any delay in receiving the documents and reserves the right to accept/reject any or all applications.

**Managing Director  
SIDCUL**

**Address for Communication:  
State Industrial Development Corporation  
Of Uttaranchal Limited,  
2-New Cantt. Road,  
Dehradun-248001.  
Ph.: 0135-2743838, 2743837, 2743297  
Fax:0135-2743288**

## Letter of Application

[Letterhead paper of the Applicant including full postal address, telephone no. fax no, and e-mail and Telegraphic address]

Date:.....

To,

The Managing Director,  
State Industrial Development Corporation of  
Uttaranchal Limited,  
2-New Cantt. Road,  
Dehradun-248001.

**Sub: Infrastructure Works at Industrial Estate in Uttaranchal - Submission of Pre-qualification bid for Tender.**

Sir,

1. Being duly authorized to represent and act on behalf of \_\_\_\_\_ (hereinafter referred to as 'the Applicant'), and having reviewed and fully understood all of the pre-qualification requirements and information provided, the undersigned hereby applies for pre-qualification to bid on the contract as mentioned below:

We hereby request for our pre-qualification for above tender.

Name of the Work	Scope of Work
Infrastructure Works for Industrial Estate in Uttaranchal	<p>a) Earthwork, in embankment/excavation, providing, Laying and compaction of Granular Sub-Base, Filter layer Water Bound/Wet Mix Macadam BM, DBM, BC, SDBC and Concrete Kerbs, channels for the Road, Construction of Median &amp; Footpath finished with Grass-Crete pavers, supply and spreading of sweet soil for soft landscaping.</p> <p>b) Providing and laying of water distribution system, Construction of overhead and underground RCC Water Tanks, Pump Room including all building finishes, Borewells, providing and laying of Sewer System line, Storm Water Drainage System etc.</p>

2. Attached to this letter are certified copies of original documents defining:
  - a) Applicant's legal status,
  - b) Principal place of Business,
  - c) Place of incorporation (for Applicants who are corporations) or the place of registration and the nationality of the owners (for Applicants who are partnerships or individually owned firms) and
  - d) Authority letter(s) for signatory(ies)
  
3. SIDCUL and its authorized representatives are hereby authorized to conduct any inquires or investigations to verify the statements, documents, and information submitted in connection with this application, and to seek clarification from our Bankers, clients regarding any financial or technical aspects. This letter of application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information to provide such information deemed necessary and requested by yourselves to verify statements and information provided in this application such as the resources, experience, and competence of the applicant.
  
4. SIDCUL and its authorized representatives may contact the following persons for any enquiry, if desired.

<b>General &amp; Managerial Inquiries</b>	
Contact 1	Name, Address & communications facilities (Telephone, Fax no. & e_mail address etc.)
Contact 2	Name, Address & communications facilities (Telephone, Fax no. & e_mail address etc.)
<b>Personnel Inquiries</b>	
Contact 1	Name, Address & communications facilities (Telephone, Fax no. & e_mail address etc.)
Contact 2	Name, Address & communications facilities (Telephone, Fax no. & e_mail address etc.)
<b>Technical Inquiries</b>	
Contact 1	Name, Address & communications facilities (Telephone, Fax no. & e_mail address etc.)
Contact 2	Name, Address & communications facilities (Telephone, Fax no. & e_mail address etc.)
<b>Financial Inquiries</b>	
Contact 1	Name, Address & communications facilities (Telephone, Fax no. & e_mail address etc.)
Contact 2	Name, Address & communications facilities (Telephone, Fax no. & e_mail address etc.)

5. This application is made in the full understanding and Agreement of the terms and conditions contained in 'Invitation for Pre-qualification' and other terms and conditions supplied to us by your agency alongwith Pre-qualification document that:
  - a) SIDCUL reserves the right to take appropriate action including cancellation of pre-qualification as may be deemed fit,
  - b) SIDCUL reserves the right to amend the scope and value of contracts to be bid under this project, in which event, bids will be invited only from those applicants who meet the resulting amended Pre-qualification requirements and reject or accept any application, cancel the pre-qualification process and reject application(s),
  - c) SIDCUL shall not be liable for any such actions under 5 (a) & (b) above.
6. Appended to this application, we also specify the financial commitment in terms of the value as mentioned in the invitation for pre-qualification, and the responsibilities for execution of the contract.
7. The forms attached are duly filled in and completed giving every detail with all necessary supporting documents. The list of various forms/Annexure are as follows: -

<b>Sl. No.</b>	<b>Application Form</b>	<b>Subject/Detail</b>
1.	1	General Information
2.	1 A	Structure and Organization
3.	2	General Construction Experience Record
4.	3	Particular Construction Experience Record – copies of completed work certificate at least for 2 works of Rs. 15 Crore only.
5.	3 A	Current contract commitments/works in progress
6.	3B	Experience as Prime contractor/sub-contractor works of similar nature over the last five years.
7.	3 C	Details of contracts as listed in Application Form (3B)
8.	4	Undertaking for Personnel Capabilities.
9.	5	Undertaking for Equipment Capabilities
10.	6	Financial Capability – Copies of last 5 years balance sheet.
11.	7	Information Regarding debarring / expelling of tenderer or abandonment of work by tenderer.

8. We confirm that if we bid, that bid, as well as any resulting contract, will be signed so as to legally bind all the partners, jointly and severally.
9. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true and correct in every detail.
10. Every page of the Pre-qualification document (Annexures and relevant documents) have been duly signed and stamped with the company's seal.

Signed
Name
For and on behalf of (name of partner)

## APPLICATION FORM (1)

### General Information

All individual firms applying for pre-qualification are requested to complete the information in this form. Nationality information to be provided for all owners or Applicant who are partnerships of individually owned firms. Following information with regard to the nature of your interests in the firms may also be provided:

- a) Shareholding pattern or percentage of shares held by the individual partners.
- b) Firms interests in other areas of business.

Where the applicant proposes to use named subcontractor(s) for critical components of the works or for work contents in excess of 10 percent of the value of the whole works, the following information should also be supplied for the subcontractor(s).

1.	Name of firm	
2.	Head office Address	
3.	Telephone	Correspondence Address
4.	Fax	E-mail
5.	Place of incorporation/registration	Year of incorporation/registration

Nationality of Owners <sup>(*)</sup>		
Name		Nationality
1.		
2.		
3.		

(\*) To be completed by all owners of partnerships or individually owner firms.

**APPLICATION FORM (1 A)**

Structure and Organization

1.	The Applicant is	
	(a) An individual (b) A proprietary Firm (c) A firm in partnership (d) A Limited Company or Corporation  <i>(Submit copy of Memorandum &amp; Articles of Association in case of Partnership/Limited Company/Corporation)</i>	<hr/> <hr/>
2.	Attach the Organization Chart showing the structure of the organization including the name of the Directors and position of Director's position of office.	<hr/>
3.	No. of years of experience:	
	(a) As a Prime Contractor (contractor shouldering major responsibility)  (i) within the country (ii) other countries (specify country)	<hr/> <hr/>
	(b) As Subcontractor (specify main Contactor)  (i) within the country (ii) other countries (specify country)	<hr/> <hr/>
4.	For how many years has your organization been in business of similar work under its present name? What were your fields when your organization was established? Whether any new fields were added in your organization? And if so, when?	<hr/>
5.	Were you ever required to suspend construction for a period of more than six months continuously after you started? If so, give name of project and reasons thereof.	<hr/>
6.	Have you ever left the work awarded to you Incomplete? (If so, give name of project and Reasons for not completing the work).	<hr/>

7.	In which fields of civil engineering construction, do you claim specialization and interest?	
8.	Give details of your soil and materials testing laboratories , if any (include full range of equipment's available, 'make', year and functional conditions details etc. including present status indicating their availability for the contract(s) being applied for)	
9.	Give details of your experience in using heavy earthmoving equipment and quality control in compaction of soils	
10.	Give details of your experience in mechanized Granular sub-base/base Pavement construction	
11.	Give details of your experience in laying of bituminous mix in layers	
12.	Give details of your experience in construction of rigid (concrete) pavement	
13.	Give details of your experience in the construction of overhead water tank	
14.	Give details of your experience in the construction of Underground water tank	
15.	Give details of your experience in laying of water supply system (external)	
16.	Give details of your experience in laying of sewer line	
17.	Give details of your experience in laying of storm water drainage system	
18.	Details of Registration with any of the State Government/CPWD/MES/Railway/Public Sector Undertaking in appropriate category <b>(Submit photocopy of the valid Registration certificate)</b>	

## APPLICATION FORM (2)

Financial Record

<i>Name of Applicant</i>
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**All individual firms are requested to complete the information in this form with regard to the management of works contracts generally. The information supplied shall be the annual turnover of the Applicant, in terms of the amounts billed to clients for each year for work in progress of completed.**

**Use a separate sheet for each partner, if required.**

*Applicants should not enclose testimonials, certificates and publicity material with their applications; they will not be taken into account in the evaluation of qualifications.*

**Annual Turnover Data** (From all sources)

Financial Year	Turnover
1.	
2.	
3.	
4.	
5.	

**Annual Turnover Data** (From Civil Construction alone)

Financial Year	Turnover
1.	
2.	
3.	
4.	
5.	

Note: In case of turnover in foreign currency, the figures are to be given in relevant currency and figures in INR may be worked out as per SBI BC selling rates prevalent at that time.

**APPLICATION FORM (3)**

Particular Construction Experience Record

*Name of Applicant*

To pre-qualify, the Applicants shall be required to pass the specified requirements applicable to this form, as set out in the “Pre-qualification Instruction to Applicants”

*On a separate page, using the format of Form (3A) & (3B) the Applicant is requested to list contract(s) of a similar nature, complexity and requiring similar construction technology to the contract or contract(s) for which the Applicant wishes to qualify and which the Applicant has undertaken during the last five years. The contract value should be based on the payment currencies of the contracts converted into the Indian Rupees on the last date of submission at the prevailing SBI BC selling rate. The information is to be summarized, using Form (3C) for each contract completed or under execution by the Applicant.*

*Therefore minimum two nos. of forms for ROADWORK and one no of form for PHE WORK i.e. total three nos. of forms of (3 C) shall have to be used.*

**APPLICATION FORM (3A)**

Summary Sheet:

Current Contract commitments/works in progress

<i>Name of applicant</i>
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Applicants should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

<i>S.N.</i>	<i>Name of the contract , Location and Nature of the work</i>	<i>Contract No. &amp; Date</i>	<i>Name and Address of Client (including Tel./Fax No.)</i>	<i>Contract Value</i>	<i>Period of completion (Actual)</i>	<i>Date of completion as per contract</i>	<i>Value of outstanding work</i>	<i>Estimated completion date</i>
1	2	3	4	5	6	7	8	9
1.								
2.								
3.								
4.								
5.								
6.								

In case of turnover in foreign currency, the figures are to be given in relevant currency and figure in INR may be worked out as per SBI BC selling rates prevalent on the last date of submission.

**APPLICATION FORM (3B)**

Summary Sheet

EXPERIENCE AS PRIME CONTRACTOR/SUB-CONTRACTOR WORKS OF SIMILAR NATURE (as described in Clause – 1 of Invitation for pre-qualification) OVER THE LAST FIVE YEARS

Description of work	Name of the Employer	Contract No. & Date	Value of Contract	Date of start of work as per Agreement	Stipulated period & date of completion as per Agreement	Actual date of Completion	Remarks explaining reasons for delay in work completion if any

In case of turnover in foreign currency, the figures are to be given in relevant currency and Figures in INR may be worked out as per SBI BC selling rates prevalent on the last date of submission.



**APPLICATION FORM (4)**

**Personnel Capabilities**

UNDERTAKING

I, the undersigned do hereby undertake that our firm M/s \_\_\_\_\_ shall make provision for suitably qualified personnel to fill the key positions as required during contract implementation. I also undertake to provide personnel for the key positions specified in Annexure – I of Pre-qualification documents satisfying the qualification and experience requirements.

\_\_\_\_\_  
Signed by an Authorised Officer of the Firms

\_\_\_\_\_  
Title of Officer

**APPLICATION FORM (5)**

**Equipment Capabilities**

UNDERTAKING

I, the undersigned do hereby undertake that our firm M/s \_\_\_\_\_ shall deploy all plants and equipment's required for implementation of the project as per technical specifications. I also undertake to either own or have assured access through hire or lease the key items of the equipment's specified in Annexure – II of the Pre-qualification document.

\_\_\_\_\_  
Signed by an Authorised Officer of the Firms

\_\_\_\_\_  
Title of Officer

## APPLICATION FORM 6

### Financial Capability

Name of Applicant
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Applicants should provide financial information to demonstrate that they meet the requirements stated in the Invitation for Pre-qualification. Each Applicant shall complete this form. If necessary, use separate sheets to provide complete banker information. A copy of the audited balance sheets should be attached.

*Autonomous construction sub-divisions of parent conglomerate business shall submit financial information related only to the particular activities of the sub-division.*

Banker	Name of Banker	
	Address of Banker	
	Telephone	Contact Name and Title
	Fax	E_mail

Summarize actual assets and liabilities for the previous five years.

Foreign applicants should summarize actual assets and liabilities for previous five years in relevant currency at the end of the period reported and figures converted into Indian Rupees at the prevailing SBI BC selling rates may also be furnished.

Year – 1	Year – 2	Year – 3	Year – 4	Year – 5
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<b>Financial information in Indian Rupees</b>	<b>Actual : Previous five years</b>				
	5	4	3	2	1
1. Total assets					
2. Current assets					
3. Total liabilities					
4. Net worth					
5. Working capital					

6. Current liabilities					
7. Profits before taxes					
8. Profit after tax					

Attach audited financial statements for the last five years.

**APPLICATION FORM (7)**

**INFORMATION REGARDING DEBARRING/EXPELLING OF TENDERER OR  
ABANDONMENT OF WORK BY TENDERER**

1.	(a)	Has the applicant or any of its constituent partners been debarred/expelled by any Agency in India, during the last 5 years as on the date of application, except on account of reasons other than non-performance.	.....Yes/No
	(b)	If yes, give details	
2.	(a)	Has the Applicant or any of its constituent partners abandoned any contract work in India during the last 5 years	.....Yes/No
	(b)	If yes, give details	
3.	(a)	Has the Applicant or any of its constituent partners been declared bankrupt during the last 5 years	.....Yes/No
	(b)	If yes, give details, including present status	
4.		Has the Applicant or any of its constituent partners been debarred by SIDCUL on the date of application	.....Yes/No
5.		Is there a legal/arbitration case pending against/filed by the applicant on any of its civil contracts (if yes, provide details separately)	.....Yes/No

**Note:** If any information in this schedule is found to be incorrect or concealed, Pre-qualification application will be summarily rejected.

**ANNEXURE – I**

**LIST OF MINIMUM KEY PERSONNEL REQUIRED TO BE DEPLOYED ON THE CONTRACT WORKS**

<b>Sl. No.</b>	<b>Personnel</b>	<b>Qualifications</b>	<b>Particular Experience (Minimum Requirement)</b>	<b>Minimum No. of Personnel</b>
1.	Project Manager	B.E. Civil + 10 years Exp.	5 years of experience on Roads/PHE works and with an exp. of have handled atleast two projects of each 50 acres or more of similar kind as a Project Manager	One
2.	Construction Engineer – I	B.E. Civil + 5 years Exp.	2 years on Road / Highway and allied civil construction work	Two
3.	Construction Engineer – II	Diploma + 10 years Exp.	5 years on PHE and allied works	Six
4.	Quality Assurance	B.E. Civil + 2 years Exp or Diploma + 7 years Exp.	3 years in quality control/laboratory testing exposure related to Roads/PHE works	One

In addition to the above, any other technical personnel, supervisor and/or skilled workers and operators shall be deployed as required.

**ANNEXURE – II**

**PLANT AND EQUIPMENT REQUIRED TO BE OWNED/TAKEN ON LEASE BY  
THE CONTRACTOR AS PER REQUIREMENT**

<b>Sl.No.</b>	<b>Type of Equipment</b>	<b>Numbers</b>
1.	Dozer –	2
2.	Front End Loader	3
3.	Smooth Wheeled Roller/ Tandem Roller	6
4.	Vibratory Roller	4
5.	Hot Mix Plant (Batch Type) with Electronic Controls – 50T to 60T capacity	1
6.	Bituminous Paver Finisher with Electronic Sensor	1
7.	Motor Grader	1
8.	Water Tanker	8
9.	Bitumen Sprayer	2
10.	Concrete Mixers	4
11.	Excavator	1
12.	Tipper	20
13.	Testing Laboratory & its equipments	As per annexure III

**List of testing equipments & machineries**

1. CBR testing machine
  2. Compressive strength testing machine
  3. Sand replacement method equipment for compaction
  4. Sieve set with balance
  5. Impact value testing machine
  6. Marshal test equipments for bitumen
- 
1. All required equipments and testing facilities shall be provided by contractor at his own cost as directed by Engineer in charge in the interest of work.
  2. Any test required to be done at any stage of construction, shall be done at Pantnagar University at Contractor's cost.