

**NATIONAL CEMENT SHARE COMPANY
TOR
for detail study, EIA and mining plan
preparation for Limestone Quarry**



DIRE DAWA , ETHIOPIA

September, 2017

TERMS OF REFERENCE (TOR) FOR LIMESTONE STUDY BY CORE DRILLING

Scope of the study

The scope of the study focuses on chemical and physical characterization of the limestone resource that is assumed to be used as one of main inputs in cement manufacturing or qualitative and quantitative evaluation of the minable parts of the limestone deposit, its utilization plan, scrutinize the environmental and social impacts and their mitigation as well as management plan with the spectrum of the time ranges (from pre - post mining periods), which proposes alternative options of post mining land uses harmonizing with Dire Dawa City master plan.

National Cement Share Company invites all competent Enterprises or Companies that have good experience in providing technical services mainly related to detail subsurface geological study through core drilling of hard and soft rock formations, core logging, sampling, data interpretation integration and evaluation, Mining design, ESIA study, ...etc. Our Company needs to carry out detail geological exploration including core drilling on its limestone captive area which is found proximal to its 3000 tpd cement plant, in Dire Dawa City Administration.

The core drilling activity is aiming at characterization and evaluation of the limestone formation in subsurface geological environment, which is one of the main raw materials in cement manufacturing. Based on the results of detail investigation (evaluation of drilled core and analysis of core samples), selection of potential mining targets (sub areas) will be made. Data interpretation and integration should be done scientifically and the geological/ geochemical variations and similarities of the limestone formation should be illustrated in geological figures, cross-sections, correlations between boreholes and tables, which all are finally compiled together in concise technical report or research document.

Sequentially operational quarry benches should clearly indicated with scheduled mining plan on mining design map that ensure the safe supply of this raw material to our two cement plants in the subsequent long term period.

Environmental and social impacts which occur during and post mining periods and their mitigation and management plan should also well explained in separate ESIA study report including future land uses that modified as a result of mining operation.

Therefore, a competent bidder is expected to render the following short listed services (Table 1), in due diligence to the required highest quality standards.

Table 1 Lists of activities related to Limestone study through core drilling

S/N	Activities/specification	Remark
1	Comments on ToR	Commenting the completeness of the ToR in writing before the submission of bid document.
2	Boreholes site selection	Collar positions of drill hole locations
3	Number of boreholes to be drilled	12-15 boreholes
4	Depth of each borehole	65-75 m
5	Expected Core recovery	Greater than 95 %
6	Boreholes inclination angle	45°-90°
7	Core diameter	85 mm
8	Markings of Boreholes	Marking the drilled boreholes with visible and labeled concrete poles
9	Supply of wooden Core boxes	For total core length (about 190-200 pieces core boxes)
10	Detail core logging	Detail geological descriptions of all drilled core
11	Core labeling	Standard core labeling and markings with permanent ink.
12	Core picturing	Taking pictures of the core in each core box before sampling
13	Core splitting & sampling	Half split core at five (5) meters intervals with core full length representing a borehole depth, and also selected

		composite samples representing certain intervals.
14	Sample Coding	Samples coding and labeling after proper packing as agreed by the client.
15	Analyses of Samples	Complete chemical analysis (for major, minor and trace oxides or elements), at reliable laboratory as agreed with the client.
16	Correlation of boreholes	Sub surface cross sectional views of the limestone formation through correlation of boreholes
17	Compilation of study technical reports (final report on the finding of subsurface study).	Progress, draft and final geological reports on the results of whole study program (quantity of the deposit under different categories, quality variations and suggest on how to utilize them)
18	Mining plan and/or Mining design (separate document)	Preparation of mining plan or/mine design based on different qualities of the limestone and according to development of various quarry benches
	ESIA study	Separate detail ESIA study document

Note: Any inquiry which needs further clarification on the above-mentioned specifications can be sent in writings by the company's (NCSC) contact address.

ANNEXURE-1 EVALUATION CRITERIA DESCRIPTION

S.N	Responsiveness Criteria	Requirement of technical proposal
1	COMPANY PROFILE	Description
1.1	No of related projects	<ul style="list-style-type: none"> • Refers to No of similar Projects done • The bidder is required to have done to the minimum one relevant project (completed, submitted to and accepted by client). No such project in company history shall be ground for rejection; • required- the list of each project completed by the firm, year it was done, name and contact address of client need to be fully and expressly stated; (client recommendation is advised)
2	staff competence	
2.1	education	<ul style="list-style-type: none"> • level, field of study, year of completion and university attended and a copy of credentials need to be submitted; • minimum requirement –project team members should at least have first degree;
2.2	No of related projects done	<ul style="list-style-type: none"> • Refers to no of related studies performed, completed, submitted and accepted by client • Required – for each of the consultants to be engaged in the study, the title, year, client of the study and designated role of the consultant should be clearly specified. • Besides, name and contact address of the consultant must be expressly expressed (client recommendation is advised)
3	Project Team organization	
3.1	no of staff assigned	<ul style="list-style-type: none"> • No of staff to be assigned in project, roles, duration of stay at client site and/or off-site need to be expressly stated in man-hours, preferably in a table format; • Organizational structure of the team, depicting chain of command and roles need to be incorporated
4	Methodology	
4.1	understanding of TOR	<ul style="list-style-type: none"> • The bidder needs to discuss and demonstrate its understanding of the TOR of the client (objective, scope, core activities, procedures, deliverables etc.). a mere copy paste of client’s TOR, absence of insufficiency of such explanation in technical proposal shall establish ground sufficient for rejection;
4.2	Methodology	<ul style="list-style-type: none"> • the bidder is required to fully, procedurally and clearly expound the methodology it will deploy for the study. The absence of methodology in technical proposal shall be point for rejection;
4.3	duration	<ul style="list-style-type: none"> • Bidder is required to clearly reflect the time required for the study. The time refers to the period from effective date of study commencement of the project up to submission of final reports
4.4	Machinery capability	<ul style="list-style-type: none"> • The bidder is expected to clearly specify the type, number and machinery-hour of deployment of each machinery
4.5	Deliverables	<ul style="list-style-type: none"> • The bidder is required to clearly express the details of the deliverables of the study

Annex-2

PART ONE

INSTRUCTION TO BIDDERS

1. Bid offer must be sent to our email address: foreign.purchase@nationalcementsc.com protected by multiple passwords of management members or may submit Addis Ababa office before the closing date.

National Cement Share Company

Ethio-China Friendship Road Wellosefer

KT-12 Building 1st floor

Tel:

Cell: +251935405005/+251930283483

E-mail: gashaw.mengistu@nationalcementsc.com

Or

Abdurehman.seid@nationalcementsc.com

Addis Ababa, Ethiopia

Bidders may contact us directly through the above email and telephone for further information if any.

2. Bids shall be submitted by the consultant (Bidder) within 15 days after the first announcement of the tender on during office hours. Opening of the bids shall be on the 16th day after the first announcement of the tender on at 10:00 AM local time in the presence of bidders or their representative who choose to attend at National Cement Share Company in Dire Dawa office.

PART TWO

GENERAL CONDITIONS

1. APPOINTMENT OF AGENT

Bids submitted by persons other than the consultant shall be accompanied by a certified letter from the consultant stating that the bidder is authorized agent of the said service provider.

2. CONSULTANT'S NAME AND SIGNING OF DOCUMENTS

- 2.1. The bid shall bear the legal name of the consultant and shall be signed by an officer of the service provider.
- 2.2. The bid shall have the bidders name and signature shall be shown on each sheet on which he makes on entry. Any changes shall be initialed by the person signing the bid.

3. PRICE AND TERMS OF PAYMENT

- 3.1. The bidder shall indicate the total price in his/her pro-forma invoice. The price shall be inclusive of all costs and taxes.
- 3.2. The price quoted shall be firm for at least 60 days from the date of the bid opening.
- 3.3. The bidder shall submit his quotation in ETB (Ethiopian Birr).
- 3.4. The price offer should be submitted separately from the technical offer.

4. AWARD OF CONTRACT

- 4.1. The bid award shall be made to the responsible bidder who complies with requirements in the bid documents and technical specifications and whose

bid is most advantageous to the NCSC, price and other factors including the following points will be considered for evaluation.

- a. Technical Evaluation
 - b. efficiency and Reliability
 - c. Price Evaluation
- 4.2. Prior to the expiration of the period of bid validity, the NCSC will notify the successful bidder in writing, by fax or mail that the bid has been accepted.
- 4.3. The notification of award will constitute the formation of the contract.
- 4.4. Conditions which were no stipulated in the offer shall not be accepted by NCSC.

PART THREE

BID SCHEDULE

To: National Cement Share Company (NCSC)

Dire Dawa

Dear Sirs,

Having examined the Bid document for the provision of the service stated under your invitation to bid No _____. We, the undersigned hereby submit the following offer for the services listed below in accordance with the terms of the bid document issued by NCSC.

S. No	Description of services to be provided	Total Price

1. The above prices must be firm for 60 days from date of bid opening
2. State clearly delivery date:

We undertake, if the bid is accepted, to have all services provided within_____ calendar days from the date of contract signing.

Signature of the bidder

Date _____