



Cement Corporation of India Limited
(A Govt. of India Undertaking)
P.O.- Bokajan 782490, Karbi Anglong, Assam
Phone: 03675 246106 / 246108 Fax 03675 246107
Email: bokajacement@gmail.com
Website: www.ccilttd.in
CIN: U 74899DL1965GOI004322

Corrigendum

Date: 15/10/2022

Reference: NIT No. -BKO/MECH/RM/HG/2022-23 dt: 29.09.22

The Pre-bid meeting held on 08.10.2022 for “*Design, engineering, manufacture, supply, civil/structural design, construction, erection & commissioning of Hot air duct from pre-heater fan-1 (from common duct) outlet to raw mill 1 & 2 inlet and their respective Air Separator on turnkey basis*”. The replies of the queries rose by the participating parties and modified tender document are attached herewith.

For details, please log on to website: www.ccilttd.in and www.etenders.gov.in. Any future corrigendum shall be displayed on the above website only.

Sd/
HOD (Mech.)

E-TENDER FOR DESIGN , ENGINEERING, MANUFACTURE, SUPPLY, CIVIL/STRUCTURAL DESIGN, CONSTRUCTION, ERECTION & COMMISSIONING OF HOT AIR DUCT FROM PRE-HEATER FAN-1 OUTLET TO RAW MILL 1 & 2 INLET & THEIR RESPECTIVE AIR SEPARATOR ON TURNKEY BASIS AT CCI., BOKAJAN

Ref. no. BKO/MECH/RM/HG/2022-23

Pre-Bid meeting dated: 08/10/2022

Part Name : M/s Takviksh Engineering Pvt. Ltd.

Sub: Technical Queries as per above referred Tender

Sr.no	Page no	Clause no	Description of terms of tender	Bidder Query	CCI Reply against Bidder query
1	11(15)	3	Eligibility Criteria	Bidder request client to consider project experience relevant to other similar industries like Oil & Gas, Fertiliser, Chemical Plants instead of considering only Cement Industry	The tenderer should have supplied / executed similar type of modification job in Cement industry/Oil & Gas, Fertiliser, Chemical Plants industry on turnkey basis within or outside India in last 7 years and the same is operational till date for at least last one year
2	14(18)	8	Security Deposit	Since 10% Security Deposit is to be initially furnished as per Clause No.8.0 of Part-III Special terms & conditions, another 10% of holding as per the clause "10% release on submission of BG for a period of 12 months" shall be waived off and instead of 75%+15%+10%. Kindly consider <u>85%+1.</u> ?	SD amount is reduced to 5% from 10% that has to be submitted within 15 days from the date of award of work order as mentioned in tender terms & conditions. However, the other t&C will be remain same as per tender document.
3	12(16)	4	Project Schedule	3 months seems to be a shorter duration, hence kindly bidder request client to consider 6 months for completion of Project up to successful commissioning and PG test	The complete job as per the scope of work given at Part-IV Annexure -C starting from Design, Engineering within 45 days from the date of placement of LOI and completion of Project up to successful commissioning and PG Test is to be completed within Four (04) months from the date of receiving the steel in CCI Bokajan site . The date of award of LOI shall be considered as the zero date for all purposes.

E-TENDER FOR DESIGN , ENGINEERING, MANUFACTURE, SUPPLY, CIVIL/STRUCTURAL DESIGN, CONSTRUCTION, ERECTION & COMMISSIONING OF HOT AIR DUCT FROM PRE-HEATER FAN-1 OUTLET TO RAW MILL 1 & 2 INLET & THEIR RESPECTIVE AIR SEPARATOR ON TURNKEY BASIS AT CCI., BOKAJAN

Ref. no. BKO/MECH/RM/HG/2022-23

Pre-Bid meeting dated: 08/10/2022

Part Name : M/s Ahana Fabcon.

Sub: Technical Queries as per above referred Tender

Sr.no	Page no	Clause no	Description of terms of tender	Bidder Query	CCI Reply against Bidder query
1				We are not in a position to submit EMD.We are MSME & Udyog Aadhar registered firm.	MSME exempted for MSME registered vendors.
2				At present we cannot submit BG as demanded.	Standard tender t&c is same for all.
3	14(18)	8	Security Deposit	In regard to Security Deposit, we suggest to deduct @5% amount from our RA Invoice and the same should be return after Security period.	SD amount is reduced to 5% from 10% that has to be submitted within 15 days from the date of award of work order as mentioned in tender terms & conditions. However, the other t&C will be remain same as per tender document.
	13(17)	6	Payment terms	PG is also is to be deducted from each RA invoice @5%.	It will remain same as per the T&C of the tender.
			General	Request to provide room accomodation for the workers.	Only accomodation will be provided and it depends upon the availability.
	14(18)	6.1	Payment terms	Payment terms: Within 15days from the date of submission of Invoice.	It will remain same as per the T&C of the tender.
			General(NIT Front page)	Validity of our offer 30 days from the date of opening.	Validity of offer will be as per tender terms and conditions. The process of finalisation may be accelertated if you submit the required documents as per tender t&c during bid submission. (120 days)
			General(NIT Front page)	Requested to extend the validity of the tender for at least 10 days.	Last date will be extended as per Corporation standard norms.

E-TENDER FOR DESIGN , ENGINEERING, MANUFACTURE, SUPPLY, CIVIL/STRUCTURAL DESIGN, CONSTRUCTION, ERECTION & COMMISSIONING OF HOT AIR DUCT FROM PRE-HEATER FAN-1 OUTLET TO RAW MILL 1 & 2 INLET & THEIR RESPECTIVE AIR SEPARATOR ON TURNKEY BASIS AT CCI., BOKAJAN

Ref. no. BKO/MECH/RM/HG/2022-23

Pre-Bid meeting dated: 08/10/2022

Part Name : M/s Technocraft Engineers,.

Sub: Technical Queries as per above referred Tender

Sr.no	Page no	Clause no	Description of terms of tender	Bidder Query	CCI Reply against Bidder query
1				EMD is to be exempted as no advance will be paid from CCI	Exempted for MSME registered vendors
2				Initial BG/ Security deposit is to be restricted & the amount should not exceed Three Lac.	Not accepted
3	13(17)	6	Payment terms	PG amount is to be deducted from each RA bill @ 5% & to be held till three months after successful commissioning.	It will remain same as per the T&C of the tender.
	14(18)	8	Security Deposit	Security deposit for job execution @ 5% only is to be deducted from each RA bill and to be released immediately after the successful commissioning.	SD amount is reduced to 5% from 10% that has to be submitted within 15 days from the date of award of work order as mentioned in tender terms & conditions. However, the other t&C will be remain same as per tender document.
			General(NIT Front page)	As the market is very volatile nowadays, the validity of the offer shall be 45 days only	Validity of offer will be as per tender terms and conditions. The process of finalisation may be accelertated if you submit the required documents as per tender t&c during bid submission.
			General(NIT Front page)	Last date for submission of tender is to be extended and payment terms are to be freedd well in advance before the Tender submission date.	Last date will be extended as per Corporation standard norms.Payment terms mentioned in the tender t&c.
	23(27)		Annexure-D	We don't agree with the list of recommended Supplier/Vendors for different items(Mechanical & Electrical) . Mechanical items will be supplied by us or our associate vendors ,quality wise it is as per as recommended vendors.. Warranty period may be more than those vendors.	Main Equipments Process/Booster Fan, Motor, Control Panel/PLC should be from Approved OEM/Vendors as per Annexure-D. OEM/Vendors for other Equipments may be considered as per your recommendation, however prior approval is required from CCI .

E-TENDER FOR DESIGN , ENGINEERING, MANUFACTURE, SUPPLY, CIVIL/STRUCTURAL DESIGN, CONSTRUCTION, ERECTION & COMMISSIONING OF HOT AIR DUCT FROM PRE-HEATER FAN-1 OUTLET TO RAW MILL 1 & 2 INLET & THEIR RESPECTIVE AIR SEPARATOR ON TURNKEY BASIS AT CCI., BOKAJAN

Ref. no. BKO/MECH/RM/HG/2022-23

Pre-Bid meeting dated: 08/10/2022

Part Name : M/s Alluminium Industries Limited.

Sub: Technical Queries as per above referred Tender

Sr.no	Page no	Clause no	Description of terms of tender	Bidder Query	CCI Reply against Bidder query
1				You are asking 10 % of ABG for giving us the 10% advance.We request CCI Bokajan to give us liberty not to submit the ABG, If we are not taking advance from CCI.	It will remain same as per the T&C of the tender.
2	14(18)	8	Security Deposit	Also As per tender documents we have to submit 10% SD of total order value. Our request will be please deduct 10% Retention against each running bill. The same can be kept as Security Deposit till completion or you can release the same after 6 months of commissioning/PG.	SD amount is reduced to 5% from 10% that has to be submitted within 15 days from the date of award of work order as mentioned in tender terms & conditions. However, the other t&C will be remain same as per tender document.
3	13(17)	6	Payment terms	90% against submission of running bills after keeping 10% retention against Performance as suggested above.	It will remain same as per the T&C of the tender.



CEMENT CORPORATION OF INDIA LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

BOKAJAN CEMENT FACTORY (ISO 9001:2015 Certified Company)

Bokajan, Distt. Karbi Anglong – (Assam)-782490

CIN- U74899DL1965GOI004322

Phone: 03675 246106 / 246108 Fax 03675 246107

email: ccibcfmech1@gmail.com

website: www.ccilttd.in

NIT No.: **BKO/MECH/RM/HG/2022-23**

Dated: 29.09.2022

NOTICE INVITING E-TENDER (NIT)

(Only through e-procurement)

Online electronics bids through Electronic Tendering Systems (ETS) are invited from experienced/ competent contractor/person/agency for "**Design, engineering, manufacture, supply, civil/structural design, construction, erection & commissioning of Hot air duct from pre-heater fan-1 (from common duct) outlet to raw mill 1 & 2 inlet and their respective Air Separator on turnkey basis**".

E-TENDER NO.	BKO/MECH/RM/HG/2022-23
MODE OF TENDER	e-Procurement System (Online Part A - Techno-Commercial Bid and Part B - PriceBid) through etenders.gov.in/e procure/app (CPP Portal)
Date of NIT available to parties to download	From 29.09.2022 (15:00 hrs.) Till 13.10.2022 (14:59 hrs.)
Earnest Money Deposit (EMD)	Rs. 2,40,000/-
Date of Starting of e-Tender for submission of online EMD, Techno-Commercial Bid and Price Bid at etender.gov.in/e procure/app:	From 29.10.2022 (15:00 hrs.) Till 13.10.2022 (15:00 hrs.)
Date & time of opening of Part-A (i.e. Techno-Commercial Bid)	13.10.2022 at 15:05 hrs.
Part-B Price Bid: Date of opening of Part- B i.e. price bid shall be informed separately	To be communicated separately
Validity of offer	120 days from the date opening of techno-commercial bid

Offer is invited as per details given below: -

NIT No.	Name of the work	Activity
BKO/MECH/RM/HG/2022-23	Hot Air Ducts from Pre-Heater-1 Fan (from common duct) outlet to Raw Mill 1 & 2 inlet and their respective air separator.	Design, engineering, manufacture, supply, civil/structural design, construction, erection & commissioning of hot air duct from pre-heater fan-1 (from common duct) outlet to raw mill 1 & 2 inlets and their respective Air separator on turnkey basis.

- 1) Only those tenders will be considered who fulfill the terms & conditions mentioned in the tender documents.
- 2) Only those tenders shall be considered who deposit the earnest money, tender cost and transaction fee by due date.
- 3) The price-bid should be only as per CCI's price-bid format otherwise the tender is liable for rejection.

Note-

Tenderer must visit CCI website www.ccilttd.in for part-I & II and submit the same along with the Annexure-9, part -1 & II and their annexure are part of this tender, tenderer must sign and upload online along with techno-commercial bid of the tender. Part-I & II is available in English as well in Hindi in website for better understanding, however, in case of any contradiction in Hindi & English version, English version shall prevail.

HOD (MECH)

List of Annexure

The tender documents comprise of following:-

Annexure-A	Important Instructions to Bidders for E-Procurement.
Annexure-I	Covering letter which must be submitted by tenderer duly filled in.
Available of CCI website	General terms and conditions part-1 & Part-II with Annexure 1 to 9
Annexure - B	Part-III- Special terms & conditions
Annexure - C	Part- IV : Technical specifications
Annexure - D	Approved OEM/Vendors
Annexure - E	Input Tax Credit
Annexure - F	Price Bid (Price schedule) to be submitted duly filled in on-line. Cost break up rates quoted may also be furnished.
Annexure - G	Schematic drawing of the proposed Hot air duct system
Annexure - H	Schematic sketch of process objectives of this project

The Letterhead of the Bidder

Annexure-1

COVERING LETTER

To,

HOD (Mech)
Cement Corporation of India Ltd.
Bokajan Cement Factory
Dist: Karbi Anglong (Assam) 782490

Sub: - Design, engineering, manufacture, supply, civil/structural design, construction, erection & commissioning of hot air duct from pre-heater fan-1 (from common duct) outlet to raw mill 1 & 2 inlets on turnkey basis.

Ref:-Your NIT No. BKO/MECH/HG/2022-23 Dated

Dear Sir,

With reference to your tender for the above work, We/I hereby submit our/my tender online in two Parts i.e.; Part-A Techno-Commercial bid and Part-B Price-bid as per NIT. and instructions in the tender documents.

Part-A: Techno-Commercial Bid:

On-Line Submission (Soft Copy)

The following documents duly filled in, signed digitally and stamped are up-loaded On-Line through etender.gov.in/eprocure.app

Sl. No.	Description	Yes/No/NA
1	The Tender Special terms and conditions in Part III (Annexure-B) and Part IV(Annexure-C) duly signed digitally and stamped on eachpage in token of acceptance of the same in its entirety	
2	General Terms and Conditions Part I & II	
3	Scanned copy of Covering letter Annexure -1) (Available in CCI website)	
4	Scanned copy of Integrity pact & IEM. (Annexure -2) (Available in CCI website)	
5	Certificate whether any officer of your Corporation is related to me/us or not (Annexure-3) (Available in CCI website)	
6	List of unexecuted orders in hand as per (Annexure-4) (Available in CCI website)	
7	Bidder firm/ Company profile (Annexure-5) (Available in CCIwebsite)	
8	Details of plant and machinery installed. (Annexure -6) (Available in CCI website)	
9	Details of testing facilities installed. (Annexure -7) (Available in CCIwebsite)	
10	Details of orders executed, including CCI during last 3 years(Annexure-8) (Available in CCI website)	
11	Declaration letter having read and understood the GTC. (Annexure-9)(Available in CCI website)	
12	GST Registration No	

13	Scanned copy of the PAN card in the name of company.(in case of proprietary firm it can be in the name of the proprietor)	
14	Partnership Deed/Memorandum & Article of association	
15	Balance sheet for last three years.	
16	In case of firm registered with MSME, Certificate from MSME (NSIC Certificate) clearly Specifying the date of registration along with starting of manufacturing process and whether it is registered under ST/SC. The firms registered with MSME will also have to submit a copy of Udyog Aadhar Memorandum	

Part-B: Price bid: submitted on-line as per "PRICE BID" format Annexure -F

We/I hereby declare that We/I have not been debarred from tendering for contracts in any of the departments of Govt./Semi Govt./Public Sector Undertaking and Local Bodies.

We/I certify that the information given by us/me in the tender documents is correct and if at any stage the same is found to be incorrect, the contract will be liable to be terminated /rescinded and action may be taken against us/me by the Corporation for damages.

We are/I am duly authorized/ empowered to sign all the tender documents

- a) Name of the Tenderer.....
- b) Full Postal Address:
.....
.....
- c) Telegraphic Address/Telex/Fax.....
- d) Phone: Office.....Residence.....
- e) E-mail

Yours faithfully,

SIGNATURE OF THE TENDERER WITH SEAL

WITNESS (NAME & ADDRESS)

1.....

2.....

CEMENT CORPORATION OF INDIA LTD.
(A Govt. of India Enterprise)

PART-III

SPECIAL TERMS AND CONDITIONS OF TENDER FOR DESIGN, ENGINEERING, MANUFACTURE, SUPPLY, CIVIL/STRUCTURAL DESIGN, CONSTRUCTION, ERECTION & COMMISSIONING OF HOT AIR DUCT FROM PRE-HEATER FAN-1 (FROM COMMON DUCT) OUTLET TO RAW MILL 1 & 2 INLET ON TURNKEY BASIS.

In addition to the General Terms and Conditions of tender under PART – I & II, the following terms and conditions will also apply to the contract. These special terms and conditions, if contradictory to any conditions given in PART – I & II, will prevail upon the conditions given therein. In addition to the above, the following will also apply.

In addition to the above, the following will also apply.

1. A PRE-BID MEETING:

- a) A pre-bid meeting open to all the prospective Bidder(s) will be held at the venue, date & time specified in NIT, wherein they shall be given an opportunity to obtain clarifications, if any, regarding the work and bid conditions.
- b) All Prospective vendors shall review the tender documents and attend the pre-bid meeting, along with their queries, if any, against the terms and conditions of the tender along with their suggestions. Vendors can also upload/seek clarification through e-mail or letter from tendering authority before the last date fixed for raising queries. The queries raised shall be shared with every bidder attending the pre bid meeting and be part of the minutes. No clarification or observation will be entertained after the pre-bid meeting is over.
- c) The vendors shall attend the pre-bid meeting at their own cost; the tenderer shall be allowed to visit the site prior to the pre-bid meeting under the supervision of the site/project in-charge on prior intimation as per date mentioned in NIT.
- d) The pre-bid meeting shall be an open meeting and one time only, the date of meeting shall be decided by the corporation. In case of any change in schedule of the pre-bid meeting, the same shall be posted on the website with one week notice. In case the tenderers fail to attend the meeting, their request for rescheduling and reorganizing the pre-bid meeting shall not be entertained.
- e) Raising the observations or suggestions by the tenderers shall not give them the right to modify the terms and conditions unless it is agreed/approved by the corporation.
- f) The pre-meeting shall be attended by the committee of officials of the corporation as decided by the competent authority.

- g) No further commercial or other deviations will be entertained in the tender process after pre-bid meeting.
- h) In case there is no modification in terms and conditions, the queries raised by the vendors and clarifications given by CCI committee shall be uploaded against the above tender on CCI website. The original tender terms shall be applicable.
- i) Based on the pre-bid meeting, the terms/specification/design will be freeze accordingly, if required. In case there is modification in the tender which shall be uploaded as a corrigendum in the tender along with the queries of all vendors and replies of CCI.
- j) Those parties, who have not attended the pre-bid meeting, can also participate in the tender. The tender terms will be applicable to all parties in uniform irrespective of attending the pre-bid meeting.

1. B REVERSE AUCTION:

Instructions for Reverse Auction

1. CCI reserves the right to go for e-auction as additional condition. In case of any eventuality, the cases will be decided as per the rates submitted in the e-tender. Hence, the bidders are advised to submit their offers accordingly.
2. Only the Bidders who have qualified the techno commercial bid of the tender and whose price bid has been opened are eligible for participating in the reverse auction.
3. The lowest landed cost (net price) of e-tender, evaluated after opening of price bids shall be considered as base price (floor price) for reverse auction and accordingly the reverse auction shall be started. All bidders will be given opportunity to look at to L-1 price and submit their net price in the reverse auction process.
4. The procedures and other terms & conditions of reverse auction shall be uploaded on our website one week before the opening of price bids and starting of reverse auction. The bidders are requested to go through our website regularly to keep them updated about the procedures and terms & conditions.

The bidders participating in reverse auction shall be required to complete all formalities & submit the required documents as desired under the above stated procedures and terms & conditions.

Parameter of E-Reverse Auction:

Estimated Cost / Entry Start Price /Reverse Price for e-Reverse Auction	L1 price of the financial bids of the Techno-commercially Qualified Bidders.
Minimum decremental value	To be notified by CCI on case to case basis in NIT.
Eligible Bidders to participate in e-verse Auction	Techno-commercially qualified bidders to give declaration to participate in Reverse Auction within an hour of opening of Price bids and all such bidders be issued user id and pass word for ReverseAuction.
Start Date & Time of e-Reverse Auction	_____ at 15.00 Hrs. (after 2 working days of opening of price bids)
Initial Duration of e-Reverse Auction	02 Hrs (from 15.00 Hrs to 17.00 Hrs.)
Automatic Extension of "Reverse Auction closing time" if the last bid received within a predefined time duration before the "Reverse Auction closing time:"	Yes
Pre-defined time duration (as mentioned above)	05 minutes
Time of each Automatic Extension	15 minutes
Display of Lowest Bid (L1)	Yes (To all Bidders) (Without the bidder identity)

Reverse Auction Procedure:

1. The reverse auction is to be carried two days after the opening of e-price bids.
2. If L1 party decides to be out of reverse auction, the party will be allowed to do so. However, if the Reverse Auction yields a lower price, the L-1 party would have no claim / right to be awarded.
3. Other parties if opts out they will be assumed to be to be not participating in tender. No chance shall be afforded later.
4. Bidder has to quote price inclusive of P&F, inspection charges, taxes & freight etc.
5. The L-1 bidder after reverse auction shall be considered, as final L-1 & the case for awarding shall be processed as per policy & NIT.
6. In case bidder, not eligible for participation in reverse auction as per Clause VIII below mentioned guidelines, is an MSE, but their price quoted is within the band of L-1 + 15%, their bid shall be considered for participation in Reverse Auction in line with "Public Procurement Policy for Micro & Small Enterprises (MSEs) order-2012".
7. The break-up of final price viz. basic rate, freight charge, inspection charge etc. will be taken for processing the case after reverse auction has concluded.
8. After conduction of reverse auction, distribution of work amongst bidders shall be done as per NIT, after evaluating L-1, L-2 etc.

Guidelines for Reverse Auction:

1. Any tender can be cancelled/withdrawn at any time before award of contract, which is invariably mentioned in NIT.
2. Number of participants allowed in reverse auction:
 - a) In case of single eligible (techno- commercial qualified) party, no reverse auction shall be conducted & tender shall be finalized subject to reasonability of the rate.
 - b) Reverse Auction shall be conducted for two (2) or more techno-commercially qualified parties.
 - c) For 2-4 techno- commercially qualified parties, reverse auction shall be conducted with all parties.
 - d) For 5-6 techno- commercially qualified parties, one highest bidder (H-1) shall not be allowed to participate in reverse auction.
 - e) For 7-10 techno commercially qualified parties, two highest bidders (H-1 & H-2) shall not be allowed to participate in reverse auction.
 - f) For more than 10 techno- commercially qualified parties, only lowest 8 (eight) bidders shall be allowed to participate. However, in case of tie in the eighth (last) position, all such parties shall be allowed to participate in the reverse auction i.e., in case there is tie of 2 parties in 8th lowest position (L-8), then both of them shall be allowed to participate in reverse auction.
3. Lowest bid implies the bid whose landed cost is lowest considering freight, inspection charge & less input credits for GST. (Reverse auction shall be conducted on landed cost excluding GST).
4. The base price, minimum detrimental value, pre-defined time duration of quoting the revised rate (in minutes) shall be available with the service provider portal as per the format to be uploaded with NIT.
5. Closing price (CP) of reverse auction shall be treated as new L-1 and tender shall be processed accordingly.

Complaints may be given, if any regarding denial of service or any related issue, in writing through e-mail/fax to the service provider, with copy of mm_co@ccilttd.in, within 15 min prior to initial closing time of reverse auction.

Bidder shall be assigned user id & password by the service provider, which is presently M/s. Antares Systems Pvt. Ltd.

2. SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

The details Scope of Work will include Design, Engineering, Manufacture, Supply, civil / structural design, including civil works / foundations, erection & commissioning of Hot Air Ducts from Pre- Heater-1 fan (from common duct) outlet to Raw Mill 1 & 2 inlet and their respective Air separator on turnkey basis i.e. from design to commissioning.

Detailed scope of work mentioned in Part IV.

Activity wise break up of total scope of works is as under:-

1. Party should visit site and study the site conditions for design, layout and carry out the measurement of necessary process parameters etc. for proposed Hot air diversion system.
2. Design, Engineering, and lay out for Hot air diversion system
3. Civil works such as excavation, earth back filling, RCC work of footing, columns, beams, foundation of equipments, roof and flooring and structural works etc.
4. Supply of equipments viz. Fans, motors, electrical & instrumentation panels along with I/Opanels, power & control cables etc. Display of Parameters in Kiln and Raw Mill Control panel.
5. Fabrication of items like interconnecting ducts etc.
6. Erection and trial run of the equipments by the supplier.
8. Suitable supports to the inlet and outlet ducts are to be provided.
9. Hooking up with existing system
10. Performance Guarantee Test

The above activities may be taken up by one individual tenderer or by forming a consortium of two or more with overall responsibility resting with the leader of the consortium members who will fulfill the techno commercial terms & conditions of the tender and shall be responsible to CCI in all aspect of the tender. The leader of the Consortium could be any party taking up work .

- i. Design, Engineering and Civil work.
- ii. Manufacturing, supply etc.
- iii. Erection & Commissioning works and Hooking up with existing system.
- iv. PG test.

3. ELIGIBILITY CRITERIA :

The tenderer are to quote for Design, Engineering, Manufacturing, Supply, Civil / Structural Design, Including Civil Works / Foundations, Erection & Commissioning for Hot Air Ducts from Pre-Heater-1 fan (from common duct) outlet to Raw Mill 1 & 2 inlet and their respective Air separator on turnkey basis by one individual tenderer or by forming a consortium of two or more with overall responsibility resting with leader of the consortium members as mentioned above.

The role of individual constituent consortium member shall be defined by the tenderer for specific work and their eligibility will be considered on the basis of the criteria given in the tender with the qualification and experience for specific work to be taken up by the consortium member.

The eligibility of individual partner of the consortium to carry out the above scope of work has been defined below. The credentials of the consortium partners who shall carry out the specific work should be submitted in the Techno Commercial Bid along with photocopies of order executed and also in hand, copy / copies and performance certificates issued for the jobs executed by them to consider their eligibility. The tenderer will sign MOU with the other consortium members. A copy of the (MOU) shall be submitted along with the Techno Commercial Bid. The successful tenderer shall submit a detailed Legal agreement later on before issuance of the order.

- i) Average annual financial turn over during last three years ending 31st March of previous financial year should be Rs. 36.00 Lakh
- ii) Experience of having successfully completed similar works during last seven years ending last day of month previous to the one in which applications are invited should be either of the following :
 - a) Three similar completed works costing not less than Rs. 48.00 Lakh.
or
 - b) Two similar completed works costing not less than Rs.60.00 Lakh.
or
 - c) One similar completed work costing not less than Rs. 96.00 Lakh.
- iii) The tenderer should have supplied / executed similar type of modification job in Cement industry/Oil & Gas, Fertiliser, Chemical Plants industry on turnkey basis within or outside India in last 7 years and the same is operational tilldate for at least last one year.

Sequence of activities and payments thereof.

- a) Successful tenderer has to accept the order and sign the agreement within a week's time.
- b) Submission of Bar chart, & Billing schedule within 45 days.
- c) Submission of document of Design, Engineering, Drawing, Layout of Civil/Structural and Plant layout within 45 days. Review/Approval from CCI will be accorded within 15 days from date of submission and after having discussion / clarifications of points.
- d) Supply of materials and equipment for civil work viz., Excavation equipment, Tor steel, Shuttering material, ready-mix machines / installation etc.

- e) Supply/ fabrication of metal plate and structural steel for site fabrication of duct, structures, connecting ducts etc.
- f) Supply of bought out items of mechanical, Electrical & Instrumentation viz., fans and its motors, panels , cables etc.
- g) Erection of equipments in sequence after/along with Civil work.
- h) Electrical and instrumentation work.
- i) Charging of control panels and simulation
- j) Hooking up with existing system & trial run and Performance Guarantee test.

The complete project is on Turnkey project i.e. from concept to commissioning.

4. PROJECT SCHEDULE:

- i) The complete job as per the scope of work given at Part-IV Annexure -C starting from Design, Engineering within 45 days from the date of placement of LOI and completion of Project up to successful commissioning and PG Test is to be completed within **Four (04) months from the date of receiving the steel in CCI Bokajan site**. The date of award of LOI shall be considered as the zero date for all purposes.
- ii) The successful tenderer has to submit
 - (1) Basic Design Report
 - (2) Plot Layout
 - (3) Detailed General Arrangement Drawings of the system for Civil, Mechanical, Process and E&I.
 - (4) Technical Specifications,
 - (5) Bill of Material
 - (6) Load data details,
 - (7) Parameters/data for design,
 - (8) Bar Chart for the complete project etc. to CCI within 45 days from the date of award of LOI.
- iii) Decision of CCI in respect of all the technical specifications, design, drawings, diagrams, schemes and selection of vendors/contractors will be final.
- iv) The successful tenderer has to submit item wise Billing Schedule for the supply of the material in sequence of erection at the site for approval to CCI. The approved billing schedule may be item wise/ tonnage basis as the case may be and shall be used for purpose of raising the bills.
- v) **The shutdown period required for hooking-up/commissioning shall be loaded on the quoted rate for comparison purpose, to evaluate the lowest bidder (L 1) as follows:**
 - a) **No loading charges will be loaded for first seven (07) days of shutdown period.**
 - b) **If shutdown period exceeds from ten (07) days then Rs. 6.58 Lakhs per day will be loaded.**

Hence vendors should clearly mention plant shutdown period required for hooking-up/commissioning.

5. PRICES :

- i The Bank Guarantees as mentioned under different columns (EMD, Security Deposit (SD) , Advance & Performance guarantee (PG) etc.) are to be submitted as per CCI formats from any Nationalized Banks only of equal amount as per validity indicated in the relevant clause with claim period of further three months.
- ii Prices are to be quoted on firm and FOR destination basis inclusive of Packing/Forwarding charges, insurance etc. showing break up as per Price Bid format only. No escalation during the period of contract / execution of the entire contract / extended period on whatever reasons thereof will be allowed in prices.
- iii The price should be quoted strictly in our prescribed Price Bid Performa only enclosed with the tender, both in figures and words to avoid ambiguities. In case of any difference in figures & words, the lower amount of the two will be taken into consideration.
- iv Award of contract will be solely at the discretion of CCI.

6. PAYMENT TERMS:

Payment Stage (A)	Description of Work (B)	% of total value of work excluding taxes (C)	Payment Terms (D)
1st Payment	Submission of Basic Engineering Drawings, Basic Engineering data, Submission & Approval of General Layout Drawings, PERT Chart & Manufacturing of Billing Schedule to the total Contract.	5%	75% of the Column (C) at each stage of the basic contract value + taxes at actual after reflecting in CCI GST portal will be paid balance & next 15% will be paid against the successful completion of Performance Guarantee (PG) Test followed by 10% balance payment will be released on submission of BG for a period of 12 months with claim period of 3months. It will be returned within 2 months of successful completion of PG/warranty.
2nd Payment	Completion of Civil & Structural Works	13%	
3rd Payment	Manufacturing & Supply of Equipment.	30%	
4th Payment	Completion of Fabrication, Assembling, Fixing & Erection Works of structural & Mechanical/E&I equipments	22%	
5th Payment	Completion of Hooking & Commissioning Works	6%	
6th Payment	Completion of Insulation Works	24%	
	Total	100%	

- 6.1 All payment will be released through e-transaction mode within 30 days after receipt of materials duly certified after inspection by CCI.

*Payments will only be released after submission Security Deposit towards contract as per **Clause No.8.0 of Part-III Special terms & conditions.***

6.2 MODE OF PAYMENT

- a. Payment to the tenderer through e-payment only.
- b. Approval of billing schedule submitted by the successful tenderer one week before the dispatch of the first consignment by the tenderer.

The following documents are to be submitted.

Three copies of invoice along with document such as gate pass, packing list, consignment note (consignee copy) as per approved schedule by CCI and dispatch documents certified by CCI conforming to the approved schedule / work certified by CCI in case of erection and commissioning charges.

(i) Copy of insurance policy, clearly indicating the part consignment by underwriter, Inspection report by CCI certifying acceptance of consignment and value conforming to the schedule of material already certified by CCI.

(ii) Any other documents as required by CCI Finance.

- c. The payment shall be released by RTGS / NEFT on receipt and acceptance of materials/ equipments at CCI site or approval of running bills in case of erection and commissioning charges, as mentioned above at Clause No.6.0.

7. PENALTY/L.D.

- a. Any delay beyond the scheduled completion period of the project will attract penalty @ 0.5% delay per weekly of the total contract value subject to the maximum ceiling of 5% of the total contract value.
- b. The date of successful commissioning on the basis of certificate given by CCI will be treated as the date of completion for the purpose of calculating penalty. However, Performance Guarantee Test shall be carried out as per technical specifications of Clause No.13 of Part III within a period of 15 days from the date of successful commissioning.

8. SECURITY DEPOSIT (SD):

- a. The successful tenderer shall have to furnish Security Deposit equivalent to **5 % (five percent) of the** total value of the contract including taxes & duties by way of Demand Draft / Bank Guarantee (in CCI format to be provided by CCI) in lieu of **Clause 2.0 of PART – II** General terms and conditions of the tender towards satisfactory performance of the contract within 15 days from the date of award of the work order to our Bokajan unit.

- b. This Security Deposit shall be refunded within 2 months from the date of satisfactory completion of the PG Test and on basis of certificates given by CCI.

9. INVOICING:

- a. Three set of copies of invoices showing basic rates, full taxes amount / GST, freight etc. along with packing list, delivery challan, Railway Receipt / Lorry Receipt / Parcel way bill or similar other documents are to be sent to the consignee, in case of direct payment option by DD submitted to CCI duly certified by CCI representative in the manner specified under Clause 6.3.1 & 6.9.2 of part III special terms and conditions for obtaining payment. Copy of these documents should also be sent immediately after dispatch of the consignment to the destination by fax / mail to avoid demurrage / wharf age.
- b. Three copies of invoices of which one shall be original duly pre-receipted along with Packing list/delivery challan shall be sent to the paying authority directly.
- c. If any extra charges including wharf age / demurrage are incurred in taking delivery of the consignment due to supplier's failure to observe the conditions mentioned above, the same would be recovered from the supplier.

10. CONSIGNEE:

- a. HOD (MM) – BOKAJAN (ASSAM). However, the consignment note (**C/N**) / LR / RR shall be endorsed by CCI in the name of tenderer's representative posted at CCI BOKAJAN Unit to facilitate receipt, unloading, transport and safe custody by him at CCI's site.
- b. The successful tenderer should ensure that their site in-charge would be available at Bokajan unit, before the first lot of material reaches the unit, for ensuring the receipt, unloading of the material and its safe unloading as well as custody etc.
- c. Transit insurance, insurance during storage will be in the scope of successful Tenderer only.

11. PAYING AUTHORITY:

H.O.D. (FINANCE) – BOKAJAN CEMENT FACTORY, BOKAJAN

12. INSPECTION :

- a. Pre-dispatch inspection, if any shall be done at the tenderer's works or at the works of tenderer's vendors. The tenderer shall give an advance notice of minimum seven days for enabling CCI to depute the inspector. Material will be dispatched only after pre-dispatch clearance certificate given by CCI's inspector.
- b. The equipments shall also be inspected at works of purchaser's plant site by the Corporation representative.

- c. Inspection shall, in no way, absolve the responsibility of the supplier for workmanship, quality and performance guarantee offered by them.

13. PERFORMANCE GUARANTEE (PG) TEST :

Performance guarantee tests for the system as a whole shall be conducted within 30 days from the date of successful commissioning or as per the direction of CCI.

- a. The Tenderer shall arrange all instruments, electrical meters, tools and tackles, equipment required for carrying out performance guarantee tests. All arrangements for the performance guarantee tests shall be carried out by the party. The PG test will be conducted two times by the party at the interval of 15 days or more and should meet all the norms as specified in tender terms and conditions.
 - b. The tenderer shall rectify the defects, if any, observed during the above tests, and only after the rectification of such defects, test can be further conducted.
 - c. The Capacity of the fan & its head will be tested and should be as per the specification.
 - d. During the test, the actual kw and current drawn at the full load capacity of the system by each drive shall be compared with the rated current for 10 per cent margin. The tenderer shall be required to replace the drive in which 10% margin is not available over and above the rated capacity.
 - e. The Party shall guarantee the successful and satisfactory operation of the equipments and materials supplied, erected and commissioned under the contract, as per the specifications and documents & variations in the parameters are liable for debt against permissible limits i.e. there is a provision of deduction of amount from total contract value of L-1 :
- a. If gas temp at inlet is less by 5%, 10%, & 15% deduction will be done 0.5%,0.6% & 0.7% respectively
 - b. If gas flow at inlet is less by 5%, 10%, & 15% deduction will be done 0.5%,0.6% & 0.7% respectively
- f. The modifications / alterations/rectification, if any, shall be carried out immediately on completion of the performance guarantee test, but in any case within a period of 30 days from the date of performance guarantee test. In case the Party fails to carry out the modifications / alterations / rectification within the above period, CCI reserves the right to carry out the same at the risk and cost of the Party.

14. WARRANTY/ GUARANTEE:

- a. The tenderer shall guarantee that all the equipments supplied by them whether manufactured at their works or fabricated at our site or by their sub-suppliers or purchased from any other source and supplied to the Corporation will be new and free from all defects and shall be of first class workmanship and quality.
- b. The tenderer shall warranty that to replace, rectify or repair free of cost at our Factory site, the components or the parts of the machinery, including the bought outs which have become unserviceable due to any of the defects within a period of 12 (Twelve) months from the date of successful commissioning of the plant or 18 (Eighteen) months from the date of completion of the delivery whichever is earlier. If the tenderer is not complying with the

above within a reasonable time, the Corporation shall have the option to rectify, repair or replace the defective parts / machinery after expiry of two weeks' notice and at the risk and cost of the tenderer.

15. TRANSPORTATION, INSURANCE & HANDLING AT SITE:

The freight and insurance charges will be borne by the successful tenderer. All loading, unloading, transportation and storage at site will be done by the successful tenderer. Suitable covered space shall be provided by CCI for critical and other sensitive components free of charges. Erection cum storage insurance shall also be included in the successful tenderer's scope.

16. TECHNICAL INFORMATION / DATA:

The tenderers are required to furnish the information particulars i.e. capacity, power in kw, material of construction & any other special parameters along with their tender.

17. SUBMISSION OF DRAWINGS / SCHEMES / TECHNICAL DOCUMENTS etc ..

Six (6) sets of complete descriptive catalogue, Dimensional General Arrangement Drawings, detailed parts list of each and every item are to be furnished by the successful tenderer to enable us to verify the items at the time of receipt & installation.

18. RETURNS :-

Monthly report of the dispatches for each previous month shall be sent by the Successful tenderer by 5th of the subsequent month to the CCI, Bokajan with following particulars: -

- i) Quantity due for supply during the month.
- ii) Quantity actually dispatched with reasons for variation.
- iii) LR / RR No. and date.
- iv) Bill No. and date.
- v) Quantity awaiting dispatches.

19. LAWS GOVERNING THE CONTRACT:

This contract shall be governed by the laws of Union of India in force. All the state & central labour law will be applicable to the worker to the working at the site

ESI REGISTRATION:

The tenderer & their authorized contractor should have ESI Registration & ESI code no. under ESI Act 1948.

20. Terms and condition for Erection and Commissioning:

The details of terms and condition for Erection and Commissioning are given in Part-IV of the tender documents.

CEMENT CORPORATION OF INDIA LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

PART- IV: TECHNICAL SPECIFICATIONS

Brief description of Plant:

Bokajan cement plant (BCF) is a unit of Cement Corporation of India Ltd, Government of India Enterprises under the Ministry of Heavy Industries. Bokajan Cement Factory went into commercial production in 1977. Plant is situated at Bokajan, Karbi Anglong, Assam on the NH-39 (Golaghat Road) which is connecting to the site with Dimapur on South and Golaghat on North through the Bokajan town. Plant is well connected by Rail and Road; it is 1.4 Km far from Bokajan Railway station, 10Km from Dimapur Railway Station and the nearest airport is Dimapur at 18KM. Bokajan Cement factory is having its own Railway siding(CCIB) adjacent to Factory.

Geographical Location of the site: 26°01/13.8//N & 93° 45/52.5//E

Soil investigation report of CCI Plant:

Safe load bearing capacity of soil 30.00 Tonne / M² at -3.00 mtr. Below G.L.

Level of Soil:

CCI Bokajan plant is covered by old alluvial soil.

Seismic Zone:

CCI Bokajan fall under (Zone V)

Temperature Range:

12°C to 34°C

Existing Process & Equipment specifications details:

There are 02 No of Coal fired Rotary Kiln using dry process technology, each of capacity 300 TPD with individual stream of conventional cyclones on 4 stages Pre-heater and Individual Grate Cooler.

Each Pre-heater outlet duct connected to individual pre heater fan having capacity 69,000 M³/Hr at gas Temp 350°C at pre-heater fan inlet & at 350mm WG. After Pre-heater fan, gases from both the fans merged into a single duct and goes to GCT (Gas Conditioning Tower).GCT outlet gas temp is being maintained at 150°C normally but sometimes its goes up to 240 °C on failure of GCT water pump. GCT out let is connected to ESP (1, 46,000 M³/Hr) having negative draft of 150mmWG and temperature 150 °C by ESP Fan capacity 1, 44,000 M³/Hr.

ESP output is going in to the Stack (Stack height 59.70mtr above ground level (MSL 138mtr).

Flow sheets are attached with tender documents. (Sheet 1, 2 & 3)

There are 02 No of Raw Mill (Ball Mill) each having capacity 25TPH with a Common ESP. The hot air for Raw mill is generated in manually fired Coal furnace.

1. OPERATIONAL PARAMETER DETAILS OF EXISTING EQUIPMENTS:

The existing operational parameters like Draft, Temp. Profile, Gas Volume, Dust loading etc. which are furnished below are for existing operation. However, As these data may be very important aspect in Designing enhanced system, therefore party has to verify the same physically at site and design accordingly.

1. Raw Mill 1 & 2

Capacity – 25 TPH each

2. Raw Mill ESP Fan

ESP fan Capacity: 132000 m³/hr @150mmWG, 115⁰ C

3. PH Fan

PH Fan Capacity – 69000 m³/hr @350mmWG, 350⁰ C

4. GCT'

Outlet gas temperature (Normal condition) - 150⁰ C

5. Kiln ESP Fan

ESP fan Capacity: 144000 m³/hr @150mmWG, 150⁰ C

- The available hot gas from pre-heater will be approximately 27MT @ 330 deg C. Heatbalance to be carried out for 5% moisture in raw feed.
- Our ball mill can handle up to 16MT of gases. Air velocity inside the ball mill is taken as 1.5 m/s
- Remaining 11 MT of hot gas can be routed through separator for further drying ofmoisture.

2. OBJECTIVE OF THE PROJECT:

- Achieving consistent raw mill performance ,increase grinding capacity of the Raw Mill & reduce power consumption of the raw mill grinding process by utilize available hot gas from pre-heater circuit without using existing manually fired coal furnace.
- Achieving consistent, stable heat source by utilizing available hot gas from pre-heater f a n e x i t with thehelp of placing booster fan.

3. SCOPE OF WORK:

Design, Engineering, Manufacture, Supply, civil / structural design, including civil works / foundations, erection & commissioning of Hot Air Ducts from Pre-Heater-1 fan (from common duct) outlet to Raw Mill 1 & 2 inlet and their respective Air separator on turnkey basis.

- 1) The scope includes Designing, Engineering, Fabrication & Erection including civil works / foundations and Thermal insulation of suitable ducting with tapping from suitable point at Pre-heater fan exhaust to Raw Mills inlet and each air separator.
 - i) The duct system should be so designed that it integrates with existing system without disturbing the operating system i.e. Kiln operation & Raw mill operation.
 - ii) Development of Drawings & Route with lay-out for ducts & its supports & loads of civil & structural design.
 - iii) Designing & Supply of booster fan, motor, damper, electrical & instrument control panel, Cable etc for the above purpose with each design inputs for machineries specifications.
 - iv) Fabrication of Duct and supporting structure.
 - v) Erection of Ducts, Fan, Motor, Damper, E&I panel, Cable laying etc.
 - vi) Commissioning and Hooking up of the Ducting system with the existing system.
 - vii) Thermal insulation of the duct system
 - viii) The Broad scope of work includes Design, Engineering, manufacture, supply, and erection & Commissioning of civil, mechanical, electrical, Instrumentation and Controls with all required accessories.
 - ix) The existing operational parameters like Draft, Temp. Profile, Gas Volume, Dust loading etc. which are furnished at Clause 1, Part-IV i.e. operational parameter details of Existing Equipments are for existing operation. However, as these data may be very important aspect in designing enhanced system, therefore party has to verify the same at site and design accordingly.
 - x) Schematic drawing of the proposed Hot air duct system is shown in Annexure-G.
 - xi) Schematic Process Flow Diagram with objectives of this project shown in Annexure-H.

- 2) Ducts should be suitably designed to dry-out raw materials at ambient temperature i.e., limestone with moisture from 6-12 % to avoid any jamming of the mills due to wet materials.
 - i) The following parameters may be obtained at **Mill inlet (draft available : -25 to -30 MMWG)**:
 - a) Gas Temperature minimum 250 °C
 - b) Gas Flow 20,400 m³/hr
 - ii) The following parameters may be obtained at **Separator inlet (draft available : -35 to -40 MMWG)**:
 - a) Gas Temperature min 250 °C
 - b) Gas Flow 13,600 Nm³/hr
 - iii) The following parameters may be obtained at **Mill outlet-**
 - a) Gas Temperature 80 to 90 °C.
 - b) Draft approx. -50 mm WG.
 - c) Flow of Gas approx. 25000 m³/hr
 - iv) The following parameters may be obtained at **Separator outlet-**
 - a) Gas Temperature 80 to 90 °C.
 - b) Draft approx. -70 to -80 mm WG.
 - a) Flow of Gas approx. 25000 m³/hr
- 3) Party should visit the site and study the area of existing Civil construction, structure, foundation and suggest minimum alterations / addition to accommodate the proposed projects with the existing facilities.
- 4) Party should study / calculate and consider the necessary process parameter, soil safe load bearing capacity, wind load, temperature, seismic zone, dead load, live load etc., for designing.
- 5) Preparation of project technical concept with indicating necessary equipment.
- 6) Preparation of general layout and technological flow - sheet based on technical concept outlined and the proposed plant facilities with equipment details with all operation parameters.
- 7) Preparation of general arrangement drawings with an equipment (indicative) fixing details.
- 8) Preparation of BOM and required steel details.
- 9) Recommend broad sizing of the major equipments, requisite energy conservation & pollution control measures.
- 10) Successful tenderer should submit all EQUIPMENT GA DRAWINGS & LOAD DATA CIVIL DRAWINGS, Mechanical, Electrical, Instrumentation, Power control drawings for approval before manufacturing.
- 11) The existing operational parameters like Draft, Temp. Profile, Gas Volume, Dust loading etc. which are furnished at Clause 1, Part-IV i.e. **operational parameter details of Existing Equipments are for existing operation. However, as these data may be very important aspect in designing enhanced system, therefore party has to verify the same at site and design accordingly.**

12) Site visit for reviewing the site condition, collection of all data/parameters including process data also by the tenderer and design, engineering & drawings etc accordingly for 2 to 3 days by 2 to 3 persons (Max).

13) Any other related points for smooth operation of Kiln & Raw Mill system.

4. SUPPLY OF ITEMS:

- 1) Only Steel & Cement will be issued free of cost from CCI. Other building materials like CGI sheets of 20 SWG, Coarse aggregate, Sand, Stone, Bricks, Coil, Binding wire etc. will be arranged by the party.
- 2) The steel for Structure, Duct and Civil foundation (TMT bar) will be provided by CCI as per drawing estimate (bill of quantities) & same for cement.
- 3) Re-conciliation of Steel and Cement issued from CCI will be done after/during the Project.
- 4) Tor steel of reputed make such as SAIL / Tata / Jindal / RINL or steel confirming to IS-226, Fe- 500D grade only allowed to be used and Structural steel required for the above work of make such as SAIL / Tata / Jindal / RINL on confirming to IS standards only allowed to be used for the work.
- 5) The tenderer has to follow all industrial & statutory rules of Central Govt .and State Govt.
- 6) Equipments for excavation, concrete mixture machine, vibrators, shuttering & centering material, skilled, un-skilled manpower required to complete the civil works as per design / drawing shall becompletely responsibility of the contractor.
- 7) All consumables like Gas , Welding electrode, paint etc. are in tenderers scope.
- 8) All required power, instrumentation and control cables, panels with cable Trays and other requiredaccessories for cable connection and etc are in tenderers scope.
- 9) All Fabricated/structural items with one coat of Red Oxide and one coat of smoke Grey enamel paint for non-insulated parts are in tenderers scope.
- 10) Equipments/accessories like Fans, Motors, Dampers etc. required for the smooth running of the system are in tenderers scope.
- 11) Thermal insulation of the ducting system is in tenderers scope.
- 12) Platforms & staircases with hand railing suitable for the maintenance and operation of all the equipments shall be provided by the tenderer. All platforms shall have staircases (not monkey ladders) for accessibility and hand railings for safety are in tenderers scope.
- 13) Four sets of Operational and Instructions manuals of all equipments, six prints of all drawings prepared for the system, fabrication and erection and to be supplied by the tenderer.
- 14) One set of all reproducible of all the drawings prepared for the proposal to be supplied by the successful tenderer after approval and execution of the job by incorporating the changes made during erection and commissioning.
- 15) Soft copy of Drawings in AutoCAD as well pdf forms with Manuals & BOM are to be submitted by the Tenderer in a non-erasable electronic media like USB etc.

APPROVED OEM FOR MECHANICAL AND E&I ITEMS

Approved OEM/Vendors of Mechanical and E&I Items		
Projec: Hot Air Duct (BKO)		
SN	Items	OEM/Vendors
Mechanical Items		
1	Process/Booster Fan	Reitz/Flaktwoods/ACCEL/Batli-Boi
2	Butterfly Dampers-motorised (regulating)	Pebco/EEL/Bachmann/United Technomech
3	Louvre Dampers-motorised	Pebco/EEL/Bachmann/United Technomech
4	Metallic Expansion Joints	Flexicon/KE-Burgmann/Keld
5	Non-Metallic Expansion Joints	Flexicon/KE-Burgmann/Keld
E& I Items		
1	Motors	Siemens/ABB/CGL/Marathan
2	Control Panel/PLC	Allen Bradley/Siemens/ABB/FLS Automation
3	RTD	Toshniwall/Pyrotech
4	Pressure Transmitters/DP	Honeywell/ABB/Siemens/Rosemount/Pyrotech
5	Thermocouples/Temp Transmitter	Honeywell/ABB/Siemens/Rosemount/Pyrotech
6	MCC/MCC Pannel	Siemens/ABB/L&T
7	Limit Switch	Jayshree/Kana/BCH/Jai Balaji/
8	Proximity Switch	Jayshree/Kana/BCH/Jai Balaji/
9	Electrical Actuator	Auma/Technomech/Marsh/Hi-Lehmon
10	Vibration Monitor	Schenk/IRD MTL/IFM

Note:

***deviation to approved vendors should brought to notice to CCI for final approval if occurs**

5. TERMS AND CONDITION FOR ERECTION AND COMMISSIONING:

Tenderer has to submit the completion certificate to CCI after completing the erection. Then the CCI will inspect all the system /equipment based on tenderer certificate. During inspection if any defect found should be rectified than the same will be re- inspected before starting of trial run. After successful trial runs, commissioning can be carried out.

a. Completion of Erection work

- i) Rectification/ modification as required before erection as well as during erection and after trial run of machineries with and without load, shall be the responsibility of the Successful tenderer
- ii) Arrangement of adequate number of safety equipments for erection and storing shall be the responsibility of the Successful tenderer.
- iii) Arrangement of all necessary erection materials like machined and un-machined packing's will be made by the Successful tenderer.
- iv) Erection, staging structures and necessary supporting hardware, consumables as may be required shall be arranged by the Successful tenderer.
- v) The Successful tenderer shall provide all approved foundation drawings, structural drawings, erection drawings, permissible erection tolerances and relevant Performa in reproducible sheets for individual equipments erection and checks. All checking of the erected machinery would be done with these basic drawings and tolerances.
- vi) The Successful tenderer may carry out fabrication work at site for which facilities like space and power supply will be provided free of cost by CCI.
- vii) The Successful tenderer at his own cost for all equipments, platform, hand railings, supports and structures etc will do painting with red-oxide and two coats of enamel paints.
- viii) The existing equipments removed from their foundation including scrap materials are to be shifted to a place indicated by CCI. The entire work premises are to be cleaned after completion of erection work.

b. Responsibility of The Successful Tenderer

- i) A schedule for the erection work will be made out by the contractor keeping in view the supply schedule and the construction schedule for carrying out the job sequentially within the overall time schedule as specified in the order.
- ii) Unloading and handing of all the equipments forming scope of supply, from the railway wagons or road transport (truck/trailer) to the contractor's storage shed/yards or to the storage points within the plant areas, as may be indicated by CCI. However, required storage area will be provided by CCI for the critical & other sensitive equipments.
- iii) Safety of contractor's equipments during transportation and handling and safe custody of all the equipments during the storage.
- iv) Successful tenderer at his expenses shall comply with all labour laws and shall indemnify Cement Corporation of India Ltd.(CCI) against accident/damage caused to their equipment or employees.
- v) Handling and transportation of all equipments from storage sheds/yards/storage points/CCI's go-down/storage yards to the equipment foundations and placing them over the foundations.
- vi) The Successful tenderer shall be responsible for demurrage and wharf age charged by railways, all damages, shortages and security of materials and equipment under his charge till the same are erected and commissioned on full load, certified in writing as such and taken over by the CCI.
- vii) Safety of personnel will be the responsibility of the tenderer. All required PPE (Personal protection equipment) has to be provided by the Successful tenderer.
- viii) Tenderer should ensure the timely payment to their work force as per minimum wages.

c. Tools & Tackles

Arrangement of all tools and tackles, instruments, cranes, winches, derricks, ropes, sleepers, lifting and transport equipment, jacks, chain blocks, crow bars, welding and gas cutting sets, testing and checking equipments etc. in adequate numbers will be the responsibility of tenderer.

d. Checking of Equipment foundation

Checking of levels, foundation centre distances cross checking, alignment of Civil foundations and structure for machinery installation purpose according to the relevant drawing & design.

The modifications required in the existing civil structures and other structures for erecting the proposed Hot air ducting system without damaging to the existing structure is also in the scope of erection work.

e. Electrical and instrumentation erection

For electrical and instrumentation equipment and other related items, special conditions, over and above those given in the preceding para's are given below.

All the equipments such as motors, starter panels, switchgear panels, control equipments etc., are to be suitably mounted, assembled aligned and inter-connected with various sections, checking of each components for satisfactory mechanical and electrical operation and cleaning of contacts, mounting of loose supplied components to their respective positions, setting of relays in accordance with the requirements.

- i) Laying of LT, control, instrumentation and special cables including supply/fabrication of all cable accessories such as junction boxes, indoor, outdoor end termination/straight through/tee jointing kit for cables: cable glands: cable lugs: cable ferrules, rigid/flexible pipes cable racks/ supports/ trays etc. cable laying shall be as per approved schedule and shall be carried out in a neat and systematic manner with codified markings.
- ii) Supply and erection of earthing stations: mains and connections with all accessories for the mechanical transportation system including control arrangement. The work includes double earthing of all drives, cables, power equipment and electrical boxes. The instrumentation panels and screened cables should be separately and effectively earthed. All work shall be carried out in accordance with India Electricity Rules and the code of practice as per India Standards.
- iii) Supply and erection of lighting system inside the covered sheds is under the scope of this order, as per statutory requirement.
- iv) All erection and standard tests as per BIS and electricity regulations shall be carried out, integral part of the installation and commissioning work.
- v) Complete automation system should be integrated with our existing relay logic system.
- vi) The tenderer shall provide all the drawings, layouts and relevant data for getting the statutory approval from the State Government authorities/ electrical inspectorate as per rules in vogue.

f. Other terms and conditions

- i) Commencement and completion period of erection:
 - The detailed time schedule for erection is to be prepared in consultation with CCI and will be approved by CCI. Alteration of schedule will be kept to minimum but not changed without written approval of CCI.
 - Erection of equipments of Hot air duct complete system will be considered completed, when each equipments is ready for trial & commissioning. If any defects or deficiencies are found during the pre-commissioning test, or trial run, due to sub- standard quality of equipment, workmanship of the successful tenderer the same shall be rectified/replaced by the successful tenderer expeditiously.

ii) Contractor's site Supervisory Staff:

- All necessary staff headed by the site Manager or Resident Engineer should be available at site according to the progress of erection and quantum of erection. Replacement in case of unforeseen eventualities shall be done expeditiously, Manager will be considered as Chief Authority representing the contractor for all purposes of communications with CCI and his representatives. He will also be responsible for his sub-supplier representatives, staff etc. for this purpose.
- Site Electrical in- charge must possess valid Electrical Supervisory licence

g. Site Facilities:

- i) CCI will provide to the contractor, free of cost, necessary water and electrical power facilities and cement 43 gr./PPC within the factory premises for the purpose of erection and civil works.
- ii) Land for storage yard, site office and fabrication yard shall be made available to the contractor within the factory premises free of cost.
- iii) The accommodation to the Staff/Engineer of the contractor shall be provided on chargeable basis, if available. No transportation will be provided by CCI.

h. Trial runs and commissioning :

- i) After the completion of erection work of mechanical, electrical and instrumentation equipments, party shall offer the entire system for trial runs and commissioning the alignment of all the drives and the equipments shall be checked jointly and defects, if any, shall be rectified by the party.
- ii) After the erection but before the power supply is switched on, the insulation of all electrical equipments shall be tested by suitable instrument and any defects revealed shall be rectified by the party.
- iii) All the motors of equipments shall be run on no load at least for eight hours.
- iv) On supply of power to the system, the following tests shall be carried out- the correctness of all the circuits, interlocks and sequence of operation etc.
- v) The satisfactory operation of all the protective devices:
 - I. Satisfactory operation of all the local push button (LPBs)
 - II. Calibration of all the instruments.
 - III. After the successful no load trials/tests as indicated above, the defects observed, if any shall be rectified by the party before taking load trial.

The following details shall be recorded in regard to the trial and commissioning of the system:

- (a) Alignment of all motors, gear boxes and equipments.
- (b) Value of insulation resistance of motors and other electrical equipments.
- (c) Correctness of all circuits, interlocks, sequence of operations & calibration of all instruments
- (d) Satisfactory operation of all protective devices.
- (e) Any other remark, if required.

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CEMENT CORPORATION OF INDIA LIMITED
BOKAJAN CEMENT FACTORY
(A Govt. of India Enterprises - ISO 9001:2015 Certified)

INPUT-TAX CREDIT

We are entitled for availing of INPUT-TAX Credit in respect of GST paid on materials. For availing INPUT-TAX Credit, following documents are required to be submitted along with supply of materials:-

- i) A clear GST invoice, having HSN/SAC code duly stamped and signed by the supplier.
- ii) The GST rate and amount should be clearly shown separately in the Tax-invoice.
- iii) The copy of the Tax-invoice or as specified in GST meant for transporter.
- iv) In Addition to above supplier will also upload tax Invoice on GST Portal & pay GST to Govt.

- v) The supplier has to ensure GST registration in Assam for billing of , as place of supply of services is Assam.

Please confirm all the documents would be submitted along with each and every supply for availing the INPUT-TAX Credit. In case any of the documents is not submitted, INPUT-TAX Credit is not allowed by Tax authority on the GST paid by us, then the amount will be debited from your bill for the concerned supply or other payment.

Please submit this Annexure duly sealed and signed along with techno- commercial bid as token of acceptance of the above

Signature of Tenderer with Stamp & Seal

PRICE BID PROFORMA

TENDER FOR DESIGN, ENGINEERING, MANUFACTURE, SUPPLY, CIVIL/STRUCTURAL DESIGN, CONSTRUCTION, ERECTION & COMMISSIONING OF HOT AIR DUCT FROM PRE-HEATER FAN-1 OTLET TO RAW MILL 1 & 2 INLET AND THEIR RESPECTIVE AIR SEPARATOR ON TURNKEY BASIS AT CCI BOKAJAN ON FOR

Description	BasicRate (on Lumpsum)	GST as applicable (%)	Other Charges / Taxes if any	Total	
				Figures	Word
Tender for design, engineering, manufacture, supply, civil/structural design, construction, erection & commissioning of hot air duct from pre-heater fan-1 (from common duct) outlet to raw mill 1 & 2 inlet and their respective air separator on turnkey basis					
Total					

Note-

- i) Certified that the GST indicated as above are as per the prevailing Act of GST and provision made there under.
- ii) The steel will be provided by CCI and the above rate should be exclusive of cost of steel for Ducting, Structures, Civil Tor steel etc. Steel will be arranged by CCI based on design , drawing & bill of quantities of above types of steel submitted by finally qualified L-1 party within 45 days of issue of LOI

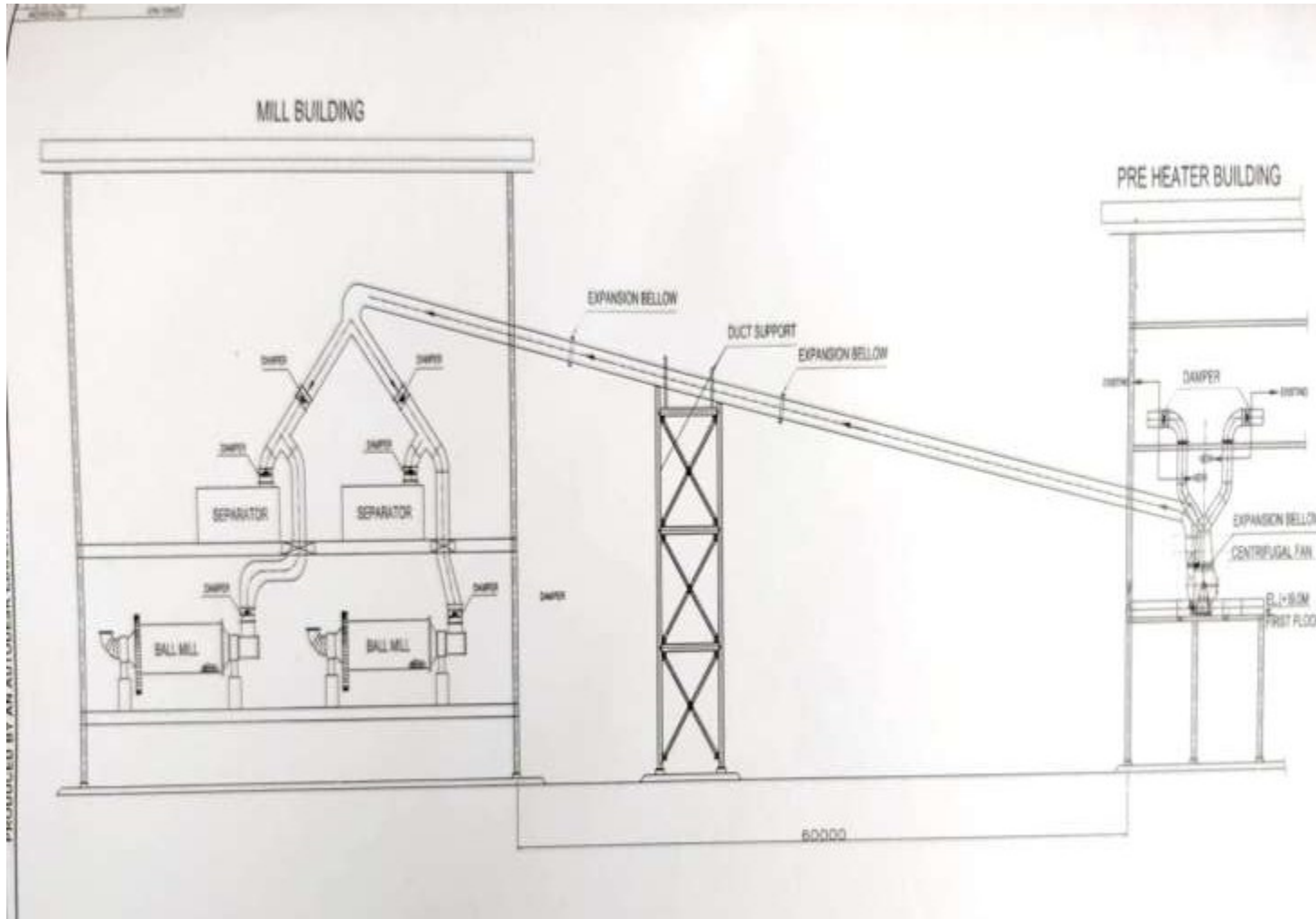
Certified that the above rates have been given in accordance with the techno-commercial bid of the tender.

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**Signature
with Company's stamp
Name & Designation**

Date :-

SCHEMATIC DRAWING OF THE PROPOSED HOT AIR DUCT SYSTEM



SUB: SKETCH SHOWING SCHEMATIC PROCESS FLOW DIAGRAM - PROPOSED

(To design, install, commission a system to supply Hot Gases from PH Fan-1 exit (after command duct) 72,000 Nm³/hr at 45°C)

