



CSIR-NATIONAL METALLURGICAL LABORATORY

[COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, CSIR]

BURMA MINES, JAMSHEDPUR, JHARKHAND - 831007

Ph.: 0657-2345132, website: <http://www.nml.res.in> E-mail: spo.nml@csir.res.in

PURCHASE ORDER

To, KINC MINERAL TECHNOLOGIES PVT LTD, PLOT. NO.: 14, HARIBHAKTI INDUSTRIAL ESTATE, DABHOI ROAD, PRATAP NAGAR, VADODARA-390004, GUJARAT-INDIA EMAIL – info@kincgroup.com	P.O. No.	NML/PUR-10-OTE(1185)/24-25
	Date	26.09.2025
	Subject	Award of Contract
	Ref.:-	1. NML Enquiry No. NML/PUR-10-OTE(1185)/24-25 dt. 13.02.2025 2. Tender floated on GeM-CPP Portal bearing Tender ID :- 2025_CSIR_226705_1 3. Quotation Ref. No. Nil and subsequent emails dt. 04.06.25, 05.06.25, 17.06.25, 21.07.25, 26.07.25, 11.09.25, 12.09.25, 17.09.25, 19.09.25 and 24.09.25

Dear Sir,

I am directed to inform you that after evaluating the bid documents submitted by you as referred above, The Director, CSIR-NML, Jamshedpur is pleased to inform you that you have been selected as the successful bidder for the **Design and Fabrication of Calcination Kiln Circuit for calcination of Dolomite**. The total purchase price including AMC Charges shall be ₹ 1,00,28,200.00, as indicated in your financial bid submitted on the GeM-CPP Portal and your revised offer submitted through email on 17.09.2025, in accordance with the procedures intimated in the relevant bid documents.

Accordingly, you are requested to kindly arrange for execution of the Contract for **Design and Fabrication of Calcination Kiln Circuit for calcination of Dolomite**. Please apply for refund of EMD if deposited by you with proper documentary evidence.

COST OF EQUIPMENT

Sl. No.	Description	Quantity	Total Price
1.	Basic cost of Design and Fabrication of Calcination Kiln Circuit for calcination of Dolomite (Tech. Specs attached at Annexure-A)	01 (One) No.	₹ 74,90,000.00
2.	Inland Transportation, Insurance & other charges	----	₹ 4,00,000.00
3.	Installation, Commissioning & Training	----	₹ 1,00,000.00
TOTAL PRICE OF EQUIPMENT EXCLUDING TAXES			₹ 79,90,000.00
GST @ 18%			₹ 14,38,200.00
TOTAL FOR CSIR-NML PRICE INCLUDING INSTALLATION & COMMISSIONING CHARGES			₹ 94,28,200.00

CHARGES TOWARDS ANNUAL MAINTENANCE CONTRACT

Sl. No.	Description	Total Price/ INR
1.	Basic Non-Comprehensive AMC Charges for 1st Year after completion of warranty period	₹ 2,11,864.00
2.	Basic Non-Comprehensive AMC Charges for 2 nd Year	₹ 2,96,610.00
3.	GST @ 18% on Basic Rate for AMC for 1 st Year	₹ 38,136.00
4.	GST @ 18% on Basic Rate for AMC for 2 nd Year	₹ 53,390.00
TOTAL AMC CHARGES FOR 2 YEARS INCL. GST		INR 6,00,000.00

TOTAL CONTRACT VALUE

Sl. No.	Description	Quantity	Total Price/ INR
1.	Total Price of Design and Fabrication of Calcination Kiln Circuit for calcination of Dolomite	01 (One) No.	94,28,200.00
2.	Total Non-Comprehensive AMC Charges for 2 Years	01 (One) No.	6,00,000.00
TOTAL CONTRACT VALUE			1,00,28,200.00

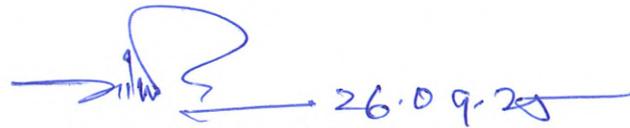
This Contract/Purchase Order shall be governed by:-

(1) General Conditions of Contract and Special Conditions of Contract as detailed in the **Bid Document Ref. No. NML/PUR-10-OTE(1185)/24-25 dt. 13.02.2025 floated on CPP Portal bearing Tender ID :- 2025_CSIR_226705_1** and

(2) Special Conditions of Contract enclosed with this Purchase Order.

The Technical Specifications and other allied features of the ordered goods shall strictly conform to those specified in the aforesaid CSIR-NML Tender Document and complied by the Bidder / Supplier in their Quotation submitted on GeM-CPP Portal and all communications exchanged between CSIR-NML and the Bidder / Supplier.

The Order Acknowledgement must be submitted immediately and in any case, within 07 days from the date of placement of this Purchase Order. The Order Acknowledgement shall be made on letterhead of the firm mentioning detailed technical specifications as per the Purchase Order and shall also contains declaration towards acceptance of all the terms & conditions of the Purchase Order.



Stores & Purchase Officer

For & on behalf of the Council of Scientific & Industrial Research

Enclo:

1. Technical Specifications
2. Compliance Statement Form

Explanations

The following words and expressions used in this Award of Contract shall have the meanings hereby assigned to them:

Purchaser	means CSIR-NATIONAL METALLURGICAL LABORATORY, BURMA MINES, JAMSHEDPUR, JHARKHAND - 831007
Manufacturer/Supplier	Means KINC Mineral Technologies Pvt Ltd, Vadodara
Indian Agent	Means KINC Mineral Technologies Pvt Ltd, Vadodara

1.	Delivery Term	FOR NML Jamshedpur (Door delivery at Warehouse, CSIR-NML, Jamshedpur)
2.	Purchase Order Value / Contract Price	₹ 1,00,28,200.00 (INR ONE CRORE TWENTY EIGHT THOUSAND TWO HUNDRED ONLY)
3.	Transportation / Despatch	The ordered goods shall be delivered by Supplier at Warehouse of CSIR-NML, Jamshedpur and duly insured by Supplier on warehouse to warehouse basis covering all the risks including SRCC.
4.	Payment	<p><u>Payment shall be made in currency of the Contract in the following manner:</u></p> <p>1. THIRTY PERCENT (30%) of the Basic cost of Design and Fabrication of Calcination Kiln Circuit, i.e. ₹ 22,47,000.00 shall be paid in <u>ADVANCE</u> against submission of Advance Bank Guarantee for equivalent amount and verification of the Bank Guarantee.</p> <p>The Advance Bank Guarantee is to be valid till thirty (30) days of successful installation, commissioning and training of the items.</p> <p>2. FIFTY PERCENT (50%) of the Basic cost of Design and Fabrication of Calcination Kiln Circuit + Inland Transportation, Insurance & other charges + 100% GST, i.e ₹ 37,45,000.00 + ₹4,00,000.00 + ₹ 14,38,200.00 = ₹ 55,83,200.00 shall be paid on receipt and inspection of goods by the consignee at CSIR-NML and on production of all required documents by the Supplier.</p> <p>3. TWENTY PERCENT (20%) of the Basic cost of Design and Fabrication of Calcination Kiln Circuit plus 100% Installation & Commissioning Charges, i.e. ₹ 14,98,000.00 + ₹1,00,000 = ₹ 15,98,000.00 shall be paid within thirty (30) days of successful installation, commissioning and training of the items and acceptance certificate issued by user and submission of performance security.</p> <p><u>Payment terms of ANNUAL MAINTENANCE CONTRACT (AMC) for 02 Years (Non-Comprehensive in nature):-</u></p> <p>Non-Comprehensive AMC Charges shall be paid on Yearly basis through RTGS within 30 days after completion of each AMC year subject to satisfactory service certificate given by the concerned user and against submission of bills.</p> <p>a. Payment on completion of 1st year = ₹ 2,11,864.00 + ₹ 38,136.00 (GST @18%) = ₹ 2,50,000.00 shall be paid subject to rendering of satisfactory performance.</p> <p>b. Payment on completion of 2nd year = ₹ 2,96,610.00 + ₹ 53,390.00 (GST @18%)= ₹ 3,50,000.00 shall be paid subject to rendering of satisfactory performance.</p>
5.	Banking Charges	All bank charges abroad shall be to the account of the beneficiary i.e. supplier and all bank charges in India shall be to the account of the purchaser.

6.	Performance Security	The Supplier shall furnish Performance Security for 3% of the contract price excluding AMC Charges, i.e. ₹ 2,82,846.00 before claiming payment. Other details of Performance Security are detailed at GCC Clause 2.13 of our tender document.
7.	Country of Origin	INDIA
8.	Port of Shipment	By Road.
9.	Road Permit / eWaybill	Will not be provided.
10.	Pre-Dispatch Inspection (PDI)	<p>The Supplier must inform CSIR-NML in advance regarding readiness of the ordered items for undergoing Pre-Dispatch Inspection.</p> <p>PDI is to be carried out at Supplier's site before delivery of the consignment to CSIR-NML. A Bill of Materials (BOM) / Bill of Quantity (BOQ) will be prepared by Supplier for the items to be dispatched in presence of Inspecting Officer. The BOM / BOQ will be verified at CSIR-NML's Inspection site upon delivery of the ordered goods.</p> <p>Any testing charges required during PDI will be borne by the Supplier.</p>
11.	Delivery period	<p>06 (SIX) MONTHS from date of issue of Purchase Order.</p> <p>At the time of taking delivery of the ordered goods, Purchaser reserves the right to ask for a joint inspection in presence of Supplier's representatives for verification of the goods delivered.</p> <p>Denial Clause (over and above levy of Liquidated Damage): any increase in statutory duties and / or upward rise in prices due to the PVC (Price Variation Clause) clause and / or any adverse fluctuation in foreign exchange are to be borne by the seller during the extended delivery period, while the purchaser reserves the right to get any benefit of a downward revisions in statutory duties, PVC and foreign exchange rate.</p> <p>Except as provided under the Force Majeure clause, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of penalty pursuant to Penalty Clause unless an extension of time is agreed upon pursuant to above clause without the application of penalty clause.</p>
12.	Warranty	01 (One) Year on-site Comprehensive Warranty from the date of completion of successful installation & commissioning and completion of all contractual obligation to the entire satisfaction of buyer.
13.	AMC	Consecutive 02-years Non-comprehensive AMC (01 preventive + 02 breakdown visit annually visit annually) for equipment to be started immediately after expiry of warranty period of 01 Year.
14.	Pre-installation visit	Firm's engineer will make the inspection for site readiness prior to shipment to expedite the installation.

15.	Installation & Commissioning	<p>Installation & Commissioning will be the sole responsibility of the Supplier. Installation & Commissioning will have to be done by the supplier.</p> <p>The Supplier will complete the Installation & Commissioning including Training and acceptance test at site within 30 days from the date of supply of equipment to CSIR-NML.</p> <p>Firm must submit copy of Installation Certificate on Supplier's letterhead duly signed & stamped by both the firm's engineer and user of CSIR-NML indicating specific start date and completion date of Installation. The firm must also submit Acceptance Certificate Form (Attached) on completion of commissioning of the items.</p> <p>Delay beyond the prescribed period in completion of contractual obligations will attract the imposition of Liquidated Damage Clause as mentioned in this tender document.</p>
16.	Training	<p>It should be imparted to Three (03) person(s) for Seven (07) day(s) in 02 (Two) trials and for troubleshooting to the purchaser at purchaser's premises. It should be completed as per schedule mentioned under installation and commissioning.</p>
17.	Acceptance	<p>Supply of goods as per PO.</p>
18.	LD Clause	<p>It will be applicable for delay in delivery / shipment, installation, testing, commissioning and completion of all contractual obligations beyond deadlines as mentioned in our Bid Document GCC 2.27 read with the relevant SCC.</p>
19.	Certificate for effecting payment	<p>Firm will submit the installation and acceptance certificate indicating the completion of Installation, Commissioning & Training as well as duly signed by the user of CSIR-NML alongwith Invoice for effecting the payment.</p>



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SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

SCC 1	The Purchaser is: Director, CSIR-NATIONAL METALLURGICAL LABORATORY, BURMA MINES, JAMSHEDPUR, JHARKHAND - 831007
SCC 2	The Supplier is: M/s. KINC Mineral Technologies Pvt Ltd, Vadodara
SCC 5	Final Destination: CSIR-NATIONAL METALLURGICAL LABORATORY, BURMA MINES, JAMSHEDPUR, JHARKHAND - 831007
SCC 6	Order Acknowledgement/Confirmation: The Order Acknowledgement must be submitted immediately and in any case, within 07 days from the date of placement of this Purchase Order. The Order Acknowledgement shall be made on letterhead of the firm mentioning detailed technical specifications as per Quotation and shall also contains declaration towards acceptance of all the terms & conditions of the Purchase Order.
SCC 7	Performance Security: The Supplier shall furnish Performance Security for 3% of the contract price excluding AMC Charges , i.e. ₹ 2,82,846.00 before claiming payment of the equipment. Other details of Performance Security are detailed at GCC Clause 2.13 of our tender document.
SCC 8	Delivery / Shipment : 06 MONTHS from date of issue of Purchase Order. Denial Clause (over and above levy of Liquidated Damage): any increase in statutory duties and / or upward rise in prices due to the PVC (Price Variation Clause) clause and / or any adverse fluctuation in foreign exchange are to be borne by the seller during the extended delivery period, while the purchaser reserves the right to get any benefit of a downward revisions in statutory duties, PVC and foreign exchange rate. Except as provided under the Force Majeure clause, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of penalty pursuant to Penalty Clause unless an extension of time is agreed upon pursuant to above clause without the application of penalty clause.
SCC 9	Part supply will not be accepted.
SCC 10	The country of origin of the Goods is INDIA
SCC 11	The port of shipment of the Goods is By Road.
SCC 12	The mode of shipment: By Road.
SCC 15	Pre-installation visit Firm's engineer will make the inspection for site readiness prior to shipment to expedite the installation. Installation & Commissioning: Installation & Commissioning will be the sole responsibility of the Supplier. Installation & Commissioning will have to be done by the supplier. The Supplier will complete the Installation & Commissioning including Training and acceptance test at site within 30 days from the date of supply of equipment to CSIR-NML. Firm must submit copy of Installation Certificate on Supplier's letterhead duly signed & stamped by both the firm's engineer and user of CSIR-NML indicating specific start date and completion date of Installation. The firm must also submit Acceptance Certificate Form (Attached) on completion of commissioning of the items. Delay beyond the prescribed period in completion of contractual obligations will attract the imposition of Liquidated Damage Clause as mentioned in this tender document.

SCC 16	<p>Training: It should be imparted for Three (03) person(s) for Seven (07) day(s) in 02 (Two) trials and for troubleshooting to the purchaser at purchaser's premises. It should be completed as per schedule mentioned under installation and commissioning.</p>
SCC 16	<p>Inspection and Tests:- The Inspection tests prior to shipment of goods and at final acceptance at buyer's site.</p> <p>After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the Supplier's plant by the Supplier prior to shipment to check whether the goods are in conformity with the technical specifications.</p> <p>Manufacturers Test Certificate with data sheet shall be issued to the effect and submit alongwith delivery documents.</p> <p>The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at Purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified. In the event of the ordered item failing to pass the acceptance test, a period not exceeding two weeks will be given to rectify the defects and clear the acceptance test, failing which, the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser. Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier.</p> <p>Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance Manuals together with Drawings of the goods and equipment built. These shall be in such details as will enable the Purchase to operate, maintain, adjust and repair all parts of the works as stated in the specifications. The Manuals and Drawings shall be in the ruling language (English) and in such form and numbers as stated in the Contract. Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purposes of taking over until such Manuals and Drawing have been supplied to the Purchaser.</p> <p>On successful completion of acceptability test, receipt of deliverables, etc. and after the Purchaser is satisfied with the working of the equipment, the acceptance certificate signed by the Supplier and the representative of the Purchaser will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the equipment.</p>
SCC 18	<p>Packing: Please refer to Special Conditions of Contract (SCC) of our tender document.</p>
SCC 19	<p>Shipping and other Documents : Please refer to Special Conditions of Contract (SCC) of our tender document.</p>
SCC 20	<p>Mode of dispatch:</p> <p>In case of supplies from within India, the mode of transportation shall be by Road. In case of supplies from abroad, the mode of transportation shall be by Sea.</p>
SCC 21	<p>Insurance: The Insurance in respect of goods to cover all risks including SRCC upto final destination shall be borne by Supplier at its own costs.</p>
SCC 22	<p>Warranty: 01 (One) Year on-site Comprehensive Warranty from the date of completion of successful installation & commissioning and completion of all contractual obligation to the entire satisfaction of buyer.</p> <p>Other details of Warranty are detailed at GCC Clause 2.21 of our tender document read with relevant SCC.</p>

SCC 23	<p>Payment: <u>Payment shall be made in currency of the Contract in the following manner:</u></p> <ol style="list-style-type: none"> 1. THIRTY PERCENT (30%) of the Basic cost of Design and Fabrication of Calcination Kiln Circuit, i.e. ₹ 22,47,000.00 shall be paid in ADVANCE against submission of Advance Bank Guarantee for equivalent amount and verification of the Bank Guarantee. <p>The Advance Bank Guarantee is to be valid till thirty (30) days of successful installation, commissioning and training of the items.</p> <ol style="list-style-type: none"> 2. FIFTY PERCENT (50%) of the Basic cost of Design and Fabrication of Calcination Kiln Circuit + Inland Transportation, Insurance & other charges + 100% GST, i.e ₹ 37,45,000.00 + ₹4,00,000.00 + ₹ 14,38,200.00 = ₹ 55,83,200.00 shall be paid on receipt and inspection of goods by the consignee at CSIR-NML and on production of all required documents by the Supplier. 3. TWENTY PERCENT (20%) of the Basic cost of Design and Fabrication of Calcination Kiln Circuit plus 100% Installation & Commissioning Charges, i.e. ₹ 14,98,000.00 + ₹1,00,000 = ₹ 15,98,000.00 shall be paid within thirty (30) days of successful installation, commissioning and training of the items and acceptance certificate issued by user and submission of performance security. <p><u>Payment terms of AMC for 03 Years (Non-Comprehensive in nature):-</u></p> <p>Non-Comprehensive AMC Charges shall be paid on Yearly basis through RTGS within 30 days after completion of each AMC year subject to satisfactory service certificate given by the concerned user and against submission of bills.</p> <ol style="list-style-type: none"> a. Payment on completion of 1st year = ₹ 2,11,864.00 + ₹ 38,136.00 (GST @18%) = ₹ 2,50,000.00 shall be paid subject to rendering of satisfactory performance. b. Payment on completion of 2nd year = ₹ 2,96,610.00 + ₹ 53,390.00 (GST @18%)= ₹ 3,50,000.00 shall be paid subject to rendering of satisfactory performance.
SCC 24	<p>Liquidated Damages : Please refer to our tender document under GCC 2.27 read with the relevant SCC.</p>



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For & on behalf of the Council of Scientific & Industrial Research

Annexure-A



KINC Mineral Technologies Pvt. Ltd.
Equipment & Process Design



EQUIPMENT DESIGN, CONSULTANCY, PROCESS & PROJECT ENGINEERING, MANUFACTURING & SUPPLY FOR
MINERAL PROCESSING & ALLIED INDUSTRIES

ROTARY KILN

FEED HOOD	
THICKNESS	5 mm
MOC	IS 2062
MAKE	SAIL, TATA or JSW
INSULATION	High Temperature Castable

DISCHARGE HOOD	
THICKNESS	5 mm
MOC	IS 2062
MAKE	SAIL, TATA or JSW
INSULATION	High Alumina Refractory in combination with Castable

ROTARY SHELL	
INSIDE DIAMETER	900 mm
EFFECTIVE LENGTH	9000 mm
THICKNESS	Shell 10 mm Pad Plate 10 mm Chair Plate 10 mm
SHELL MOC	IS 2062
PAD PLATE MOC	IS 2062
CHAIR PLATE MOC	IS 2062

SEALING ARRANGEMENT	
THICKNESS	0.5 mm
MOC	SPRING SEEL
FEATURE	Metallic Multiplate with Compressed High Temperature Cerawool and Retention Wire Rope

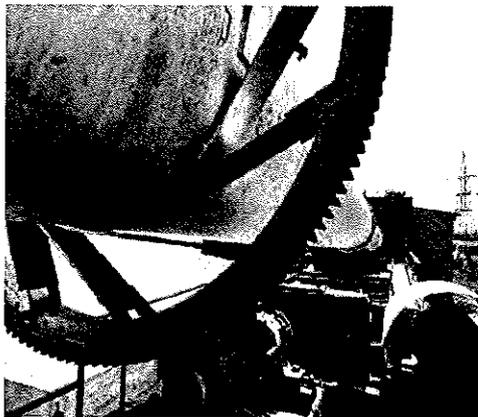
Regd. Off.: Plot. No.: 14, Haribhakti Industrial Estate, Dabhoi Road, Pratap Nagar, Vadodra-390 004, Gujarat-INDIA.
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TYRE RING	
QUANTITY	2 Nos
MOC	IS 2708 Grade 2
FACE WIDTH	80 mm
HARDNESS	200 BHN
MOUNTING	Fully Floated type with Pad Plate and
ARRANGEMENT	Chair Plate (see reference image below)

SUPPORT ROLLER WITH BEARING	
QUANTITY	4 Nos
MOC	IS 2708 Grade 2
FACE WIDTH	125 mm
SHAFT MOC	EN 8
PLUMMER BLOCK	J&J / Masta / Jayco
MAKE OF BEARING	SKF/FAG/ZKL

THRUST ROLLER	
QUANTITY	1 Set of 2 Rollers
MOC	EN 8/9
MAKE OF BEARING	SKF/FAG/ZKL
	Tie Rod based Design



GIRTH GEAR	
MOC	IS 2644
NO. OF TEETH	107
FACE WIDTH	80 mm
PRESSURE ANGLE	20 degree
MOUNTING	Spring Plate Mounted (See
ARRANGEMENT	reference image below)

PINION	
MATERIAL	EN-19
HARDNESS	220 – 230 BHN
NO. OF TEETH	15
FACE WIDTH	120
PINION SHAFT	Forged Steel EN-24



EQUIPMENT DESIGN, CONSULTANCY, PROCESS & PROJECT ENGINEERING, MANUFACTURING & SUPPLY FOR
MINERAL PROCESSING & ALLIED INDUSTRIES

GEARBOX / MOTOR	
QUANTITY	1 Set
MAKE	Elecon Gearbox with CG Motor
SPEC	3 HP
SERVICE FACTOR	>1.6

FOUNDATION OF BOLT	
SCOPE	All Supplied Equipment's Foundation Bolt in KING Scope

INSTRUMENTS /VFD	
SCOPE	Central HMI based MCC Control Panel For All Supply Equipment
VFD MAKE	Delta, L&T or Schneider
CABLING	In Client Scope (Schedule will be provided)

COMBUSTION SYSTEM

DIESEL FIRED BURNER

RIELLO/WEISHAUP/T/XILON MAKE

ROTARY COOLER

FEED HOOD	
THICKNESS	10,12,15 mm
MOC	IS 2062
MAKE	SAIL, TATA or JSW
INSULATION	High Temperature Castable

COOLER SHELL	
INSIDE DIAMETER	600 mm
LENGTH	6000 mm
THICKNESS	10 mm
MOC	IS 2062
MAKE	SAIL, TATA, AMNS or JSW

SEALING ARRANGEMENT	
THICKNESS	5 mm
MOC	IS 2062
FEATURE	Metallic Multiplate with Compressed High Temperature Insulation

Regd. Off.: Plot. No.: 14, Haribhakti Industrial Estate, Dabhoi Road, Pratap Nagar, Vadodara-390 004.Gujarat-INDIA.
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KING Mineral Technologies Pvt. Ltd.
Equipment & Process Design



EQUIPMENT DESIGN, CONSULTANCY, PROCESS & PROJECT ENGINEERING, MANUFACTURING & SUPPLY FOR
MINERAL PROCESSING & ALLIED INDUSTRIES

TYRE	
QUANTITY	2 Nos
MOC	IS 2708
FACE WIDTH	80 mm
MOUNTING ARRANGEMENT	Fully Floated

SUPPORT ROLLER WITH BEARING AND PLUMMER BLOCK	
QUANTITY	4 Nos
MOC	IS 2708
PLUMMER BLOCK	J&J / Masta / Jayco
MAKE OF BEARING	SKF/FAG/ZKL

THRUST ROLLER	
QUANTITY	1 Set of 2 Rollers
MOC	EN 8/9
MAKE OF BEARING	SKF/FAG/ZKL
	Tie Rod based Design

GEARBOX / MOTOR	
QUANTITY	1 Set
MAKE	Elecon Gearbox
SPEC	3 HP
SERVICE FACTOR	>1.6

OTHER PLANT SUPPLY EQUIPMENT

FEED HOPPER	
CAPACITY	200kg
MOC	IS 2062
QUANTITY	1 Nos

Regd. Off.: Plot. No.: 14, Haribhakti Industrial Estate, Dabhoi Road, Pralap Nagar, Vadodra-390 004, Gujarat-INDIA.
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KINC Mineral Technologies Pvt. Ltd.
Equipment & Process Design



EQUIPMENT DESIGN, CONSULTANCY, PROCESS & PROJECT ENGINEERING, MANUFACTURING & SUPPLY FOR
 MINERAL PROCESSING & ALLIED INDUSTRIES

HIGH EFFICIENCY CYCLONE	
DIAMETER	500 mm
MAIN BODY LENGTH	750 mm
CONE LENGTH	1000 mm
MOC	IS 2062
MAKE	Jindal
ROTARY AIR LOCK VALVE	0.5 HP
RAV VANE MOC	IS 2062
QUANTITY	1 Nos

INDUCED DRAFT FAN	
CAPACITY	10 HP
QUANTITY	2 Nos (1 Standby)
MOC	IS 2062
FLOW RATE	5400 Nm ³ /Hr

FUMES DUCTING WITH	
DIAMETER	200 mm
LENGTH	9000 mm
MOC	IS 2062

CONTROL PANEL POWER SEGREGATION

Equipment	TAG	QTY	HP	VFD
Screw Conveyor	SC	1	1	Yes
ID	ID1 & ID2	2	7.5	Yes
Burner FD	FD	1	3	
Kiln	RK	1	3	Yes
RAV	RAV	1	0.5	No
Cooler	RC	1	1	Yes
WS Centrifugal Pump	PMP1 & PMP2	2	0.5	No
TOTAL			16.5	

Note: All Steel used will be as per given make and spec. Relevant TC will be submitted.

Regd. Off.: Plot. No.: 14, Haribhakti Industrial Estate, Dabhoi Road, Pratik Nagar, Vadodra-390 004, Gujarat-INDIA.
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BIDDER / SUPPLIER MUST REFER TO ALL CORRESPONDENCES / COMMUNICATIONS EXCHANGED BETWEEN BIDDER AND CSIR-NML WHICH SHALL FORM A PART OF THE CONTRACT.

FORMAT FOR COMPLAINE STATEMENT AND TECHNICAL DETAILS

Calcination of dolomite involves heating dolomite at an elevated temperature to release the carbon dioxide, resulting in calcined dolomite as product. In a calcination kiln circuit, the process incorporates following steps: feeding of crushed dolomite to the rotary kiln through vibro-feeder connected to feed hopper, high temperature (~1300°-1400°C) treatment in the kiln, cooling of calcined dolomite in rotary cooler, and treating exhaust gas with dust particles in cyclone connected to induced draft fan and chimney through suitable duct.

1. **Components of Calcination kiln circuit**
 - a. Rotary calciner with all accessories (live ring, roller, girth gear with pinion, Mechanical Thrust drive, gear lubrication system Refractory supply and application, Sealing and Insulation of ducting etc.)
 - b. Rotary cooler with all accessories (live ring, roller, Mechanical Thrust drive, girth gear with pinion, gear lubrication system, Sealing and Insulation of ducting, Refractory supply and application etc.)
 - c. Vibro Feeder and feed hopper
 - d. Induced Draft Fan with exhaust gas ducting
 - e. Cyclone separator with exhaust gas ducting
 - f. Combustion system complete (with air compressor, fuel tank and burner)
 - g. Motorized Control panel
 - h. Working platform and stair case along with railing for easy maintenance of the overall circuit
 - i. Supporting MS stand for the kiln, rotary cooler, cyclone separator and feed charging arrangements.
 - j. Chimney with all accessories
2. **Specifications of the input charge material and output**

Charge material	Raw Dolomite (MgO: 18 to 21% CaO: 25 to 28 % Acid insolubles <3% Alkalies <0.1%)
Specific gravity (g/cc) of dolomite	2.5-2.9
Input Material Temperature	Ambient condition
Feed Size Range	+5 mm to -20 mm
Loose bulk density for size range	1.2-1.6 g/cc
Nature of material	Free flowing

Arrangements required in the Rotary calciner	<ul style="list-style-type: none"> The rotary kiln shell having a suitable diameter and length rotates in suitable live rings by way of girth gear and matching pinion positioned in middle of kiln. The kiln shell consists of three zones: material charging zone, intermediate zone, and firing zone. The drive arrangement shall consist of drive motor with variable frequency drive, helical gearbox and resilient /gear/pin hush coupling. The material inlet hood/smoke chamber shall be stationary with special constructional features and shall have provision for receiving, hot gas inlet and outlet of exhaust gas and dust particles. In both the hood end, i.e. smoke chamber and burning hood, effective sealing is provided between rotating shell and stationary hood to prevent leakage of waste gas. 	Yes Yes Yes Yes Yes	9 mtr long 1 mtr Dia See GA Dwg VFD & Planetary GB Double layer sealing
Capacity of Kiln	2 Ton Per Day (Feed Capacity) minimum	Yes	
Maximum Operating temperature of the kiln	1400 °C (± 50°)	Yes	
Firing Medium	Diesel Oil	Yes	
Type of calciner	Direct heating	Yes	
Length	<ul style="list-style-type: none"> 9000 mm or higher Should be a suitable value to incorporate feed rate with a working volume ranging from 15-22% 	Yes	
Shell material, coating, and thickness	<ul style="list-style-type: none"> Suitable grade of Steel and 6 mm or higher Suitable coating on outer shell for withstand temperature and atmospheric condition Suitable to withstand the full load condition (shell with refractories and with material loaded at full load condition) 	Yes	8 mm, Alumina Paint
Internal Diameter (excluding shell)	<ul style="list-style-type: none"> 920 mm or higher Should be a suitable value to incorporate feed rate with a working volume ranging from 15-22% 	Yes	1 mtr
Refractory & insulation	<ul style="list-style-type: none"> 215 mm (minimum refractory thickness) with suitable insulation to get skin temperature below 150 °C when operated at 1300 °C or higher under continuous mode 	Yes	230 mm

Refractory lining	<ul style="list-style-type: none"> 70 % minimum (Al₂O₃) Alumina brick in firing zone/uniform heating zone 55% minimum (Al₂O₃) Alumina brick minimum bricks remaining (feed zone/ preheating zone and discharge zone) 	Yes	
Kiln rpm and control	<ul style="list-style-type: none"> 0.25-4 rpm with variable frequency drive (VFD) controller Control connected to Human Machine Interface 	Yes	
Kiln inclination	<ul style="list-style-type: none"> Hydraulic based Inclination: should be variable between 0-5 degrees Control connected to Human Machine Interface 	Yes	
Live ring	<ul style="list-style-type: none"> 2/3 Nos. and it should be made of suitable wear resistant material to withstand load with suitable mechanical thrust drive to each live ring 	Yes	2 Nos
Support rollers	<ul style="list-style-type: none"> 4/6 Nos. and it should be made of suitable wear resistant material to withstand load 	Yes	4 Nos
Girth Gear with matching pinion	<ul style="list-style-type: none"> 1 No and it should be made of suitable wear resistant material to withstand load 	Yes	
Hood Support Frame	<ul style="list-style-type: none"> Suitable grade of Steel 	Yes	IS 2062
Thermocouple	<ul style="list-style-type: none"> Suitable 4 thermocouples at 4 points connected to Human Machine Interface/Control panel K type thermocouple in other zones- 3 Nos (charging zone-1 No, intermediate zone-2 Nos at regular interval) R/S type thermocouple in firing/heating zone -1 No NABL calibration certificates or calibration from equivalent agency to be provided for the thermocouples at the time of delivery and trials 	Yes	Temperature Indication on Kiln shell of 4 Nos & 1 Nos on HMI
Sealing	<ul style="list-style-type: none"> Suitable sealing to minimize heat, material and gas losses between rotating shell and stationary hood Multilayered composite type or spring steel based or equivalent 	Yes	Double layer with spring steel
ROTARY COOLER			
Type	Air cooled	YES	
Design criterion	<ul style="list-style-type: none"> Initial temperature of the feed to the rotary cooler should be the temperature at which the material gets discharged from the rotary calciner. final product temperature (<100°C) Suitable sprinkling arrangement to achieve desired cooling rate of the shell 	Yes	No sprinkling system is there as air cooled
Mechanism of transfer of	Scaled feeder chute to be provided for facile transfer of calcined material to rotary cooler for cooling	Yes	

material from rotary calciner			
Diameter of Cooler	<ul style="list-style-type: none"> 600 mm or higher Should be suitable to incorporate discharger rate from the rotary calciner. 	Yes	
Length of Cooler	<ul style="list-style-type: none"> 6000 mm or higher Should be suitable to incorporate discharge rate from the rotary calciner. 	Yes	
Shell material and Plate thickness	<ul style="list-style-type: none"> Suitable grade of Steel and 6mm or higher Suitable coating on outer shell for withstand temperature and atmospheric condition Suitable to withstand the full load condition (shell with refractories and with material loaded at full load condition) 	Yes	6 mm, Alumina Paint
Inclination and Rotation	<ul style="list-style-type: none"> Hydraulic based Rotation: as per the feed rate from rotary calciner VFD controlled rotation 	Yes	
Plate thickness under tier	30 mm or suitable to withstand load	Yes	
No of live ring	2 Nos. (minimum) made of suitable wear resistant material to withstand load	Yes	2
No of support roller	4Nos. (minimum) made of suitable wear resistant material to withstand load	Yes	4
Girth Gear with matching pinion	1 No. made of suitable wear resistant material to withstand load	Yes	
Drive	Suitable Motor 4 pole with gear box & resilient coupling/gear coupling	Yes	
Bearing & housing	Suitable for the arrangement	Yes	
Cooler Discharge Hood	Suitable grade of Steel	Yes	IS 2062
Refractory lining thickness	Minimum 115 mm or sufficient thickness to protect the shell material	Yes	115 mm, AL 30
COMBUSTION SYTEM			
Details of covered item	<ul style="list-style-type: none"> Diesel fired burner Suitable air compressor Burner must have automatic air/fuel ratio Fuel container (Diesel oil)-250L (minimum) Fuel transport and pipeline arrangement Mass flow meters for fuel and Air flow adjustments 	Yes	

	<ul style="list-style-type: none"> Suitable window with required accessories to be provided near burner to look the nature of flame into the kiln under operation Suitable control to be provided at the control panel at 10-15 m from the rotary kiln 	Yes	
VIBRATORY FEEDER & HOPPER			
Feed hopper capacity	200 kg (minimum)	Yes	200 kg
Weighing system in hopper	Load cell to be provided or suitable weight indicator system in hopper	Yes	
General description for vibratory feeder	It is required to feed the material from weighing bin to the main rotary calciner under a given vibration. It helps to control the feeding rate as per requirement, and rate can be changed by changing speed of the motors.	Yes	
Material to be charged	Crushed Dolomite	OK	
Feed Size:	+5 mm to -20 mm	OK	
Temperature	Ambient	OK	
Nature of material	Free flowing	OK	
Charging Capacity	Suitable to maintain feed rate to achieve up to 100 kg/h feed capacity (variable)	Yes	
Type of Motor	Unbalanced Vibro Motor		
Duty cycle	continuous	Yes	
CHIMNEY			
Required arrangements of chimney	The basic dimension such as height and tip diameter at the top are 20 meter (minimum) and 250 mm (minimum), respectively. The base plate and compression plate are designed using suitable method.	Yes	20 mtrs
Design criteria	<ul style="list-style-type: none"> The design of Chimney confirms to IS 6533: 1989 (Part-1 & Part-2) or equivalent Suitable base plate and compression plate to be provided Suitable Manhole to be provided Wind load to be computed with reference to IS standard Exhaust entry duct to be provided Helical strakes, lightning arrestor with earthing arrangement, platform with railing, and ladder with cage along with full length Refractory lining to be provided in the entire length Suitable chimney shell material to be used 	Yes	

Length	20000 mm (minimum)	Yes	20 mtr
Refractory	Entire length of the chimney should be lined	Yes	
Exhaust capacity	The flue gases emitted during heat exchange between the fuel and material to be calcined along with combustion air. In addition, gases will also be produced during calcination of the material. Induced draft fan and chimney should be compatible to handle the emissions generated during heating and from calcination	OK	
SUPPORT STRUCTURE			
Required arrangements of support structure	<ul style="list-style-type: none"> Support structure of cyclone, ducting, operating platform, smoke chamber, burning hood, working platform should be provided with railing and toe guard. Suitable working platform/staircase along with railing should be provided for the following <ol style="list-style-type: none"> Easy maintenance of the rotary calciner Material transport to the silos/feeder bins To withstand the overall structure 	Yes	Included
Inclusions	<ul style="list-style-type: none"> Piping Mounting structure Material transfer chutes Base frame Connecting bolts All related drives 	Yes	Included
EXHAUST SYSTEM			
Induced Draft Fan	<ul style="list-style-type: none"> As per required capacity to maintain required temperature and production condition for processing of 2 TPD feed capacity VFD controlled Manual dampers to be provided Capacity should be sufficient to maintain the required negative pressure and ensuring temperature profile inside the kiln. 	Yes	Included
Exhaust pipe	<ul style="list-style-type: none"> Full exhaust pipe (duly refractory coated) from feed zone till ID Fan 	Yes	
Cyclone dust separator	<ul style="list-style-type: none"> % separation efficiency for feed size: 95% (minimum) for down to 15 micron Provided with Rotary airlock valve (RAV) 	Yes	Included
Motor Control Centre (MCC) & LOCAL PUSH BUTTON STATION			

Motor Control Centre (MCC) & Local Push Button Station	<ul style="list-style-type: none"> Motor Control Control & Control panel with drives should be placed adjacent to the kiln in a room alongside the PLC (Programmable Logic control), which remains as an alternative for semi-automatic operation of the Rotary Kiln with man-machine interface and of various associated parts. Local push button should be provided to all the main equipment and necessary interlocking should be provided for smooth operation of the kiln. Emergency stop button should be provided Centralized control of the complete circuit shall be provided to Central control room at 10-15 m from the rotary kiln. 	Yes	Included				
ELECTRICAL CABLING							
Required arrangements	<ul style="list-style-type: none"> Interconnected power and control cable including earthing between MCC, local push button, various drives, control panel and other mounted electrical should be provided and should be taken by separate cable racks marked with aluminum tags for proper identification and maintenance. 	Yes	Included				
Drawing requirements	Circuit diagram for the control panel	Yes	Included				
Manuals	Trouble shooting manuals to be provided for all the electrical equipment.	Yes	Provided				
OTHER ESSENTIAL FEATURES							
Operation	<ul style="list-style-type: none"> Calcination kiln should be operated both in automatic and manual mode 	Yes	Included				
Support structure	<ul style="list-style-type: none"> MS Support structure for all the components of calcination circuit should be provided There should be minimum civil requirements for the overall structure 	Yes	Included				
Components of the kiln	<ul style="list-style-type: none"> Any equipment or unit operation are of standard and reputed make only. Following should be preferred <table border="1" data-bbox="582 1720 927 1901"> <tr> <td data-bbox="582 1720 662 1832">Induction Motors</td> <td data-bbox="662 1720 927 1832">ABB/Siemens/Crompton/SEW/equivalent make</td> </tr> <tr> <td data-bbox="582 1832 662 1901">Gear Boxes</td> <td data-bbox="662 1832 927 1901">Elecon/SEW/Transmatic/equivalent make</td> </tr> </table>	Induction Motors	ABB/Siemens/Crompton/SEW/equivalent make	Gear Boxes	Elecon/SEW/Transmatic/equivalent make	Yes	Included
Induction Motors	ABB/Siemens/Crompton/SEW/equivalent make						
Gear Boxes	Elecon/SEW/Transmatic/equivalent make						

Provisions	Electrical control & Switches	L&T/GE/Schneider/equivalent make	Yes	Included
	VFD	ABB/L&T/Schneider/equivalent make		
	Burner	Riello/Weishaupt/Oxilon/equivalent make		
	<ul style="list-style-type: none"> Provisions should be provided to integrate wet scrubber, conveyor and bucket elevator in the proposed system. Additional ports in the exhaust shall be provide for future exhaust requirements Centralized control of the complete circuit shall be provided to Central control room at 10-15 m from the rotary kiln. 		Yes	Included
BIS conformation	<ul style="list-style-type: none"> All electrical items/connections and mechanical fabrications shall be BIS conformed. 		Yes	

5. Scope of work

NML Requirements	Compliance (Yes/No)	Details by Vendor
<ul style="list-style-type: none"> NML Scope: Single point power supply and civil foundation and grouting. Vendor Scope: <ul style="list-style-type: none"> Design, fabrication, supply, installation and commissioning, and trials. Fabrication of the equipment shall be based on the Final approved Drawing (PAD) along with layouts by CSIR-NML. In case of any doubts over dimensions or specifications, clarifications must be sought from CSIR-NML, before fabrication. Technical nameplates shall be provided on the entire electrical and mechanical component. 	Yes	Included

6. Comprehensive warranty

NML Requirements	Compliance (Yes/No)	Details by Vendor

<ul style="list-style-type: none"> • 1 years from date of installation and commissioning trials • 2 years of AMC charges to be quoted, and AMC charges should be part of price comparison • Original warranty receipt from the OEM should be provided and will be considered (beyond 1 year warranty where applicable) 	Yes	Included
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7. **Installation, Commissioning and Trials**

NML Requirements	Compliance (Yes/No)	Details by Vendor
<ul style="list-style-type: none"> • Under Vendor Scope • Delivery within 4 months after the receipt of PO • For trails, raw material and Diesel will be under the scope of NML 	Yes	Included

8. **Essential documents to be submitted by Vendor**

NML Requirements	Compliance (Yes/No)	Details by Vendor
<ul style="list-style-type: none"> • Equipment layout and design to be submitted along with technical bids. • Past Purchase orders for the same or similar equipment to be provided from reputed Government institution/PSUs/Reputed organizations. • Load layout to be provided at the time of technical bids. • All electrical requirements to be shared at the time of technical bids • All items, which are not defined in the design specifications and are essential to run the kiln, must be quoted in the technical bid • Operating, safety, troubleshooting and maintenance manuals of all components in the calcination circuit to be provided. • Standard operating procedures of the equipment shall be provided • Vendors should provide detailed information for the arrangements against all points mentioned in this Annexure-I • Since the design and fabrication is in vendor scope, all the technical design and pre-installation requirements should be disclosed during technical bids. 	Yes	Already Submitted

9. **Acceptance criterion**

NML Requirements	Compliance (Yes/No)	Details by Vendor

<ul style="list-style-type: none"> Meeting the technical requirements as highlighted in section 2 and 4, and at least 2 successful trials of the calcination of dolomite. 	Yes	Included
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10. Training

NML Requirements	Compliance (Yes/No)	Details by Vendor
<ul style="list-style-type: none"> Training of three technical staffs in handling, operation and troubleshooting of each components of kiln. Operating manual is to be provided for operation of each components of kiln. 	Yes	Included

L/PUR-10-OTE(1185)/24-25 : Regarding techno-commercial clarification for the procurement design and Fabrication of calcination Kiln circuit for calcination of dolomite.
13 emails

< info@kincgroup.com >

Sat, 26 Jul 2025 11:03:04 AM +0530

To "Store and Purchase Division"<spo.nml@csir.res.in>

Cc "Bhola Azad"<bholaaazad@nml.res.in>,"Rakesh patel"<rakesh@kincgroup.com>,"Kaanv Patel"<kaanv@kincgroup.com>,"kincrrpatel@gmail.com"<kincrrpatel@gmail.com>

Dear Sir,

Greetings!

We thank you for your email and for placing our offer before your evaluation committee.

In reference to the clarifications and confirmations sought, please find our responses below:

1. Chimney Height:

We acknowledge the requirement mentioned in the tender. Accordingly, we confirm that the chimney height will be considered as 30 meters as per tender terms.

2. Minimum Internal ID:

We confirm that the minimum internal ID will be 920 mm, in accordance with the tender specifications.

3. Payment Terms:

We acknowledge and accept the revised payment terms proposed by your competent authority, which are as follows:

- a) 30% advance payment upon submission and verification of an equivalent amount of Bank Guarantee.
- b) 50% payment through RTGS after complete delivery of all goods and inspection at CSIR-NML.
- c) Balance 20% through RTGS after completion of installation, commissioning, and training, subject to submission and verification of the Performance Security.

We trust the above clarifies our position on all points. Kindly confirm the further course of action.

Thanking you once again for the opportunity.

Best Regards,

R.R.Patel

+91 990 900 6104

KINC Mineral Technologies Pvt. Ltd.

Equipments & Process Design

Plot No: 14, Haribhakti Ind. Estate,

B/h HP Petrol Pump, Dabhoi Road,

Pratap Nagar, Vadodara - 390 004.

Gujarat - INDIA.

Phone : +91 265 2581689

Cell : +91 9909006104

E-mail : info@kincgroup.com

Web : www.kincgroup.com | www.kincgroup.in

a company of



BIDDER / SUPPLIER MUST REFER TO ALL CORRESPONDENCES / COMMUNICATIONS EXCHANGED BETWEEN BIDDER AND CSIR-NML WHICH SHALL FORM A PART OF THE CONTRACT.

(Handwritten signature) 26.09.25

Stores & Purchase Officer

For & on behalf of the Council of Scientific & Industrial Research

BANK GUARANTEE FORM FOR ADVANCE PAYMENT

To

_____ (name of Purchaser)
_____ (address of Purchaser)
_____ (name of Contract)

Gentlemen :

In accordance with the provisions of the Purchase Order no. _____, dated _____, M/s _____, (name and address of Supplier) (hereinafter called "the supplier") shall deposit with _____ (name of Purchaser) a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of (amount of guarantee) * _____ (in words).

We, the _____ (bank or financial institution), as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to (name of Purchaser) on his first demand without whatsoever right of objection on our part and without his first claim to the Supplier, in the amount not exceeding _____ (amount of guarantee)* _____ (in words).

We further agree that no change or addition to or other modification of the terms of the Contract to be performed there under or of any of the Contract documents which may be made between (name of Purchaser) and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the contract until _____.

Yours truly,

Signature and seal:

Name of bank/ financial institution:

Address:

Date:

_____ An amount is to be inserted by the bank or financial institution representing the amount of the Advance Payment.

The Advance Bank Guarantee is to be valid till thirty (30) days of successful installation, commissioning and training of the items.

ACCEPTANCE CERTIFICATE FORM

No. _____

Dated: _____

M/s. _____

Sub: Certificate of commissioning of -----

01. This is to certify that the equipment as detailed below has/have been received in good condition along with all the standard and special accessories (subject to remarks in Para 2). The same has been installed and commissioned.

- (a) Contract No. _____ Date _____
- (b) Description of the equipment _____
- (c) Name of the consignee _____
- (d) Scheduled date of delivery of the consignment to the Lab./Instts. _____
- (e) Actual date of receipt of consignment by the Lab./Instts. _____
- (f) Scheduled date for completion of installation/commissioning _____
- (g) Training Starting Date _____
- (h) Training Completion Date _____
- (i) Names of People Trained _____
- (j) Actual date of completion of installation/commissioning _____
- (k) Penalty for late delivery (at Lab./Instts. level) ₹ _____
- (l) Penalty for late installation (at Lab./Instts. level ₹ _____

Details of accessories/items not yet supplied and recoveries to be made on that account:

SI. No.	Description	Amount to be recovered

02. The acceptance test has been done to our entire satisfaction. The supplier has fulfilled his contractual obligations satisfactorily

or

The supplier has failed to fulfil his contractual obligations with regard to the following:

(a)

(b)

(c)

(d)

The amount of recovery on account of failure of the supplier to meet his contractual obligations is as indicated at Sr. No. 3.

For Supplier

For Purchaser

Signature

Signature.....

Name

Name.....

Designation

Designation.....

Name of the firm.....

Name of the Lab/Instt.....

Date

Date.....