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Dated: 18th January 2022

1st PROJECT LIE REPORT (FOR QUARTER ENDING SEPTEMBER 2021)

OF

INTEGRATED CEMENT PLANT UNIT (IU) AND CLINKER GRINDING UNIT (GU)

SITUATED AT

INTEGRATED UNIT AT VILLAGES HARDUWA KEN, PURAINA, MADDIAN AND
SOTIPURA, TEHSIL AMANGANJ, DISTRICT PANNA, MADHYA PRADESH
AND
GRINDING UNIT AT DISTRICT HAMIRPUR, UTTAR PRADESH

IMPLEMENTED BY

JAYKAYCEM (CENTRAL) LIMITED SUBSIDIARY OF

- Corporate Valuers
- Business/ Enterprise/ Equity Valuations
- Lender's Independent Engineers (LIE)
- Techno Economic Viability Consultants (TEV)
- Agency for Specialized Account Monitoring (ASM)
- Project Techno-Financial Advisors



JKCement

- Chartered Engineers

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- Industry/ Trade Rehabilitation Consultants

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report will be considered to be correct.*

- NPA Management

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PART A

REPORT SUMMARY

- 1. Name of Project:**

Project 1- To Set Up a Greenfield Integrated Cement Plant of Capacity 8000 TPD Clinker and 2MI. TPA Cement Capacity which includes setting up of Waste Heat recovery System (WHRS) with estimated capacity of 22 MW
Project 2- To Set Up A Greenfield Clinker Grinding Unit (GU) of 2.0 MI. TPA Cement Production Capacity.
- 2. Project Location:**

Project 1: Villages Harduwa Ken, Puraina, Maddian and Sotipura, Tehsil Amanganj, District Panna, Madhya Pradesh
Project 2: District Hamirpur, Uttar Pradesh
- 3. Name of the Borrower:**

M/s. Jaykaycem (Central) Limited a wholly owned subsidiary of JK Cement Limited
- 4. Director's**

Mr. Madhavkrishna Sighania
Shri Ajay Kumar Saraogi
Shri Anil Kumar Agarwal
Shri Krishna Behari Agarwal
- 5. Prepared for Bank:**

Bank of Baroda
- 6. LIE Consultant Firm:**

M/s. R.K. Associates Valuers & Techno Engineering Consultants (P) Ltd.
- 7. Date of Survey:**

8th December 2021 (Gridning unit) and 9th December 2021 (Integrated Unit)
- 8. Date of Report:**

18/01/2022
- 9. Purpose of the Report:**

To provide fair detailed analysis report to the Bank based on the "in-scope points" mentioned below for facilitating them to take appropriate credit decision on the Project.
- 10. Scope of the work provided by the Lender:**

a. To conduct site reviews, document reviews and study progress reports on continuous basis



especially vis-à-vis Original timelines to avoid sudden shocks of overrun.

- b. To determine the progress achieved and appropriateness of related transactions. The consultant shall also flag any issue which is resulting in Nonperformance/ under performance by the contractor. All payments to related parties should be closely monitored and highlighted to the consortium.
- c. Deviations in project progress vis-à-vis timelines and amount disbursed. High value payment/ dues to be clearly monitored and highlighted to the consortium.
- d. Periodical review of invoices and submission of exception report to the consortium.
- e. Fortnightly review of production/ supplies (quantities of works certified) vi-a-vis inventory consumption records, cash flow to contractor, sub-contractor and vendors, wastages, extent of work and quality non conformities raised by borrower and highlight exceptions. A single review report will be released each fortnight for invoices raised and inventory consumed in that period.
- f. Suggestions, if any for improving the project management practices.
- g. Perform such other services as request by the lenders and mutually agreed to by the party and lenders.

11. Documents perused for Proposal:

- a. Techno economic feasibility report
- b. Project Statutory approvals
- c. CA certificate
- d. List of contractors/Suppliers

12. Annexure with the report:

1. Project approvals
2. CA Certificate
3. List of Contractors/ Suppliers



PART B

INTRODUCTION

1. THE PROJECT:

Jaykaycem (Central) Limited (JCL) is setting up a Greenfield Integrated Cement Plant (IU) of 8,000 TPD clinker and 2.0 million output TPA cement capacity at village Devra, Hardua, Puraina, Sotipura and Madaiyan, tehsil Amanganj, district Panna, Madhya Pradesh with a Split located Grinding Unit (GU) of 2 million TPA capacity in district Hamirpur, Uttar Pradesh. The project also envisages setting up of Waste Heat Recovery System (WHRS) based power plant, along with the integrated cement plant. A part of Clinker produced shall be consumed at integrated cement plant and balance shall be supplied to **JCL's** Grinding Unit (GU) in Hamirpur, Uttar Pradesh.



2. ABOUT THE BORROWER:

Jaykaycem (Central) Limited (JCL) is a wholly owned subsidiary of JK Cement Limited, which in turn, is the Cement vertical of the industrial conglomerate JK Organisation. **JCL**, thus, is an affiliate of the flagship JK Organisation. The primary set of directors of JCL as on date are:

- Mr. Madhavkrishna Singhania: Deputy Managing Director & CEO
- Shri Ajay Kumar Saraogi
- Shri Anil Kumar Agarwal
- Dr. Krishna Behari Agarwal

JCL is setting up a Greenfield grey cement manufacturing unit of 8,000 TPD clinker capacity in Panna district of Madhya Pradesh, and a Greenfield split grinding unit in Hamirpur district of Uttar Pradesh.

'Jaykaycem' is an affiliate of the multi-disciplinary industrial conglomerate- JK organisation. JK Cement limited acquired 100 Percent shares, whereupon Jaykaycem became its wholly owned subsidiary. Jaykaycem is being granted the mining lease of cement grade lime stone in Panna District of Madhya Pradesh state and letter of intent in this regard has already been issued by Madhya Pradesh government. It started the process of acquisition of land from villagers falling under mining and under construction plant area. It has plans to set up grey cement manufacturing unit of appropriate capacity in phased within the periphery of mining area.

JK cement deals in production of grey cement, white cement, wall putty, gypsum plaster, tile adhesives and grouts and wood finishes.

JK Cement is having following units

1. JK Cement works, Nimbahera
2. JK White cement works, Gotan
3. JK Cement works, Muddapur
4. JK cement works, Mangrol
5. JK cement works, Jhajjar
6. JK cement works, Aligarh
7. JK Cement works, Balasinor
8. JK White, Katni
9. Besides above listed plants, JK Cement is also having a step down subsidiary in UAE i.e. J.K. Cement works (Fujairah) FZA.

3. PROJECT LOCATION:

3.1 LOCATION OF INTEGRATED UNIT (IU)

Details of Location of Integrated unit is as below:

Particulars	Description
Latitude	N 24° 19' 14"
Longitude	E 79° 58' 40"
Connectivity Systems	
Road	<p>The project site of the subject under construction plant is well connected by road network and is on State Highway 49. The Project site is on Village Road leading to Amanganj town and Nagar panchayat which is can be easily accessed via State Highway SH-49 towards panna national park. It is around 53 Km from main district Panna. District Panna is around 285 Km far away from Lucknow State Capital.</p> <p>The project site can be approached from by traveling on National Highway – 75 (NH-75) up to Panna and then traveling on Madhya Pradesh State Highway SH-49 towards Damoh. The approximate distance of the site from NH-75 is about 48 km and about 12 km from Amanganj.</p>
Rail	Railway network is not available in the near vicinity of the under construction cement plant. The nearest railway station is at Damoh at a distance of about 85 km in South direction.
Air	The nearest domestic airport is at Khajuraho at about 100 km distance from the plant site. The nearest international airport is at Lucknow at a distance of about 350 km from the project site.

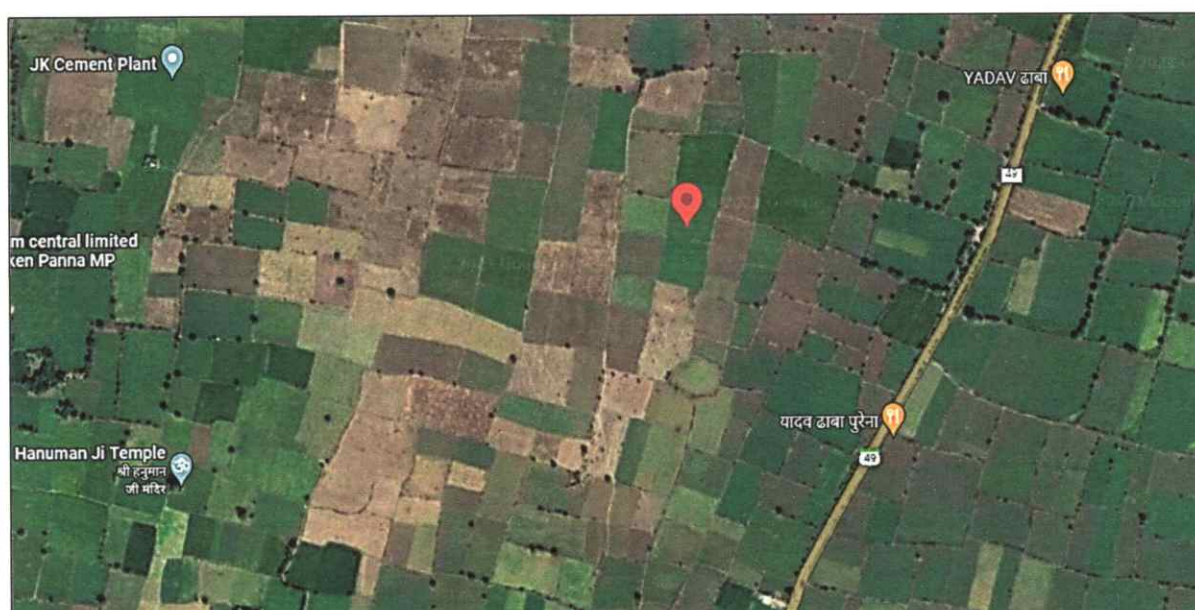


Figure 1: Location of under construction Integrated Unit

3.2 LOCATION OF GRINDING UNIT

Details of Location of Grinding unit is as below:

Particulars	Description
Latitude	N 25° 46' 16"
Longitude	E 80° 07' 40"
Connectivity Systems	
Road	The considered location of the cement manufacturing unit is well connected with major cities and town, and the markets of interest. The approximate road distances of the project site from the major towns and cities are: Kanpur : 85 km, Lucknow : 170 km, Prayagraj : 220 km, Panna (Amanganj) : 240 km, Varanasi : 350 km
Rail	The nearest railway station from the plant site is at Ingotha at a distance of about 2.5 km. The other nearest railway station is at Bharuwa Sumerpur located about 9 km from the site.
Air	The nearest domestic airport is at Kanpur at a distance of about 90 km from the under construction cement manufacturing unit. The nearest international airport is at Lucknow at a distance of about 157 km from the project site.

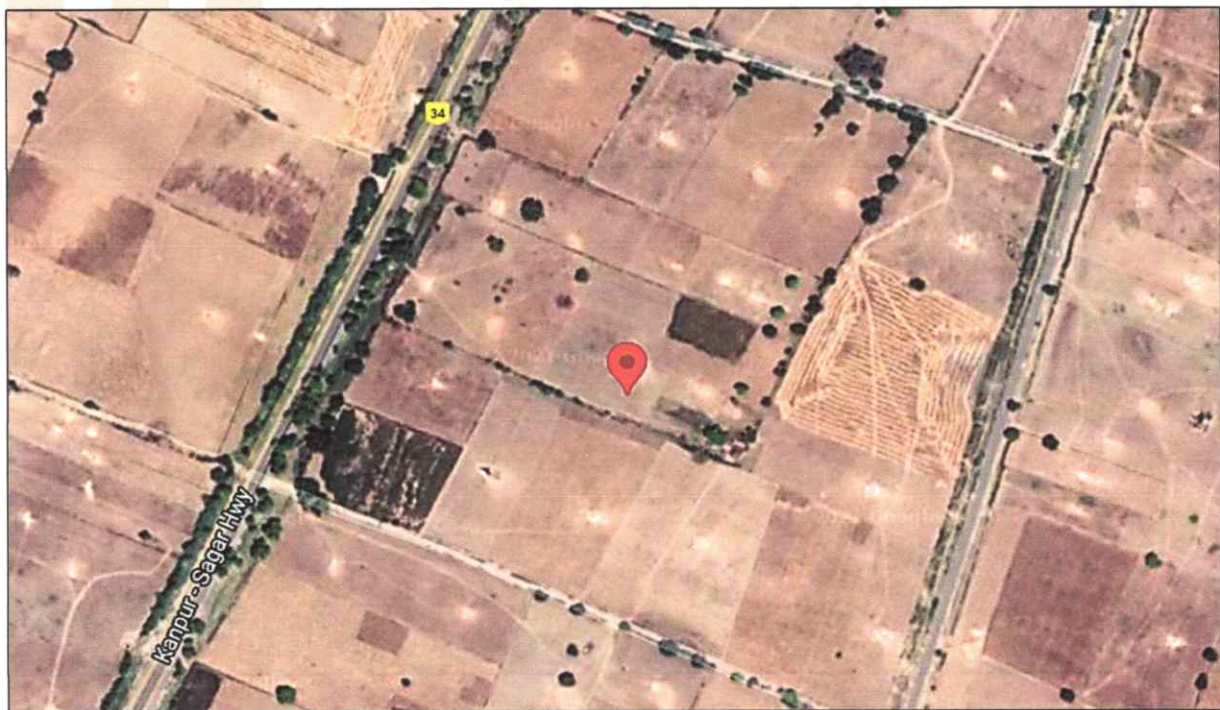


Figure 2: Project Location of Grinding Unit

4. PROJECT OVERVIEW:

Jaykaycem (Central) Limited (JCL) a wholly owned subsidiary of JK Cement Limited is setting up a Greenfield Integrated Cement Plant (IU) of 2.64 MTPA (8,000 TPD) of clinker and 2.0 Million output TPA of cement at village Devra, Hardua, Puraina, Sotipura and Madaiyan, tehsil Amanganj, district Panna, Madhya Pradesh with a Split located Grinding Unit (GU) of 2 Million TPA capacity at district Hamirpur, Uttar Pradesh.

The total proposed Project cost sums approx. Rs.2970 crores out of which Rs.2187.50 cr. is proposed for Integrated Cement Plant (IU) at Panna, MP and Rs.322.98 cr. at Hamirpur, Uttar Pradesh. In addition to this Rs.459.82 cr. is proposed for common expenses taken in Total Project Cost for pre-operative, IDC and finance expenses.

The proposed completion date for the Project and both these Plants are envisaged by 30th April, 2023 as per BoB Sanction Letter. As per TEFR, 24 months' period is envisaged for Integrated Unit and 18 months for Grinding Unit from the date of start of the construction. As per the site inspection and information provided by the borrower, construction at IU, Panna started on July, 2021 and at GU, Hamirpur from September, 2021. Presently as per our site inspection in early December, construction work is going on in full swing at both the sites and the project is anticipated to start the commercial production by April 2023.

The borrower has appointed reputed and well established contractors/Suppliers for completing this project. As per the information available in public domain for these suppliers/Contractors they are having good track record in completion such type of works.

4.1 INTEGRATED CEMENT PLANT OF CAPACITY 8000 TPD CLINKER AND 2 MILLION OUTPUT TPA CEMENT CAPACITY:

Integrated Cement Plant of Capacity 2.64 MTPA (8000 TPD) of Clinker and 2 Million output TPA of Cement is located at Villages Harduwa Ken, Puraina, Maddian and Sotipura, Tehsil Amanganj, District Panna, Madhya Pradesh. This project is proposed on about total land area about 480 acres and the same is also approved in Environment clearance.

As per Environment Clearance from Ministry of Environment, Forest and Climate Change and Industrial Entrepreneur Memorandum from Ministry of Commerce & Industry, Integrated unit



situated at Panna is having approval for setting up of 5.28 MTPA of clinker unit and 6.0 MTPA of Cement Unit having 2 units each in clinker and cement production. However as per present plan borrower has decided to setup single unit each in clinker and cement units with production capacity of 2.64 Million output TPA (8000 TPD) of Clinker production and 2 Million output TPA of Cement production which will be around 50% & approx. 33.33% of clinker and cement unit respectively of the approved capacity. In addition to this borrower also has approval for setting up CPP of 80 MW and WHRS of 30 MW out which borrower has currently planned to setup only 22 MW WHRS. Presently in the subject project, borrower has not planned Captive Power Plant (CPP) and Railway siding at both the locations.

The under construction plant will be sustained through Kakra-Panna Limestone mining lease admeasuring 1594.34 Hectare out of which 75.754 ha. Is Govt. leased land and 1518.586 ha is private land planned to be obtained by JKL. The northern boundary of proposed site of the plant adjoins the southern boundary of granted Limestone mining lease.

As per TEFRR prepared by HOLTEC, JCL has estimated that Kakra mine area has about 237.27 million output ton of cement grade limestone, 58.20 million output ton of blend able grade limestone, and 27.32 million output ton inferior grade probable limestone reserves which shall meet the requirement of clinkerisation plant for about 80 years for the envisaged production capacity of 2.64 million output TPA clinker.

In this regard out of the total available capacity, borrower has got Consent to Establish from M.P Pollution Control Board for mining at following capacities:

Activity/Product	Quantity/Year
Mining of Limestone	4.08 Million TPA
Mine Waste	0.18 Million TPA
Mining of Sub Grade Lime stone	0.58 Million TPA
Mining of Inter Burden	1.51 Million TPA
Mining of Soil/Alluvium	1.26 Million TPA



In Cement unit, JCL has proposed to produce OPC and PPC as per relevant BIS Standards:

Sr. No.	Product Type	Proportion	Cement Volume	Relevant IS
1.	OPC	40%	2424 TPD	IS 12269-1987
2.	PPC	60%	3636 TPD	IS 1489-1991

In the subject Plant borrower has opted clinker dry process kiln system of 8,000 TPD capacity. This process will include limestone Crushing and transport, correctives & additive crushing, transport, pre-blending stockpiles, Closed Circuit Roller Press (CCRP) for raw material grinding, a vertical roller mill for coal grinding, 6-stage double string preheater with in line calciner, Waste Heat Recovery System (WHRS), coal fired rotary kiln with 3 roller stations, storing & dozing of fuel, clinker cooler, clinker storage silo, clinker extraction system, Vertical Roller Mill (VRM) for clinker grinding, clinker bulk loading via trucks, cement silos, packing and loading equipment.

A part of clinker produced at Panna Plant shall be consumed at integrated cement Plant and balance shall be supplied to JCL's Grinding unit in Hamirpur, Uttar Pradesh.

In addition to above clinkerisation process, JCL has planned setting up pyro processing section with 8,000 tpd nominal capacity and 10,000 tpd potential capacity to produce 2 Million output TPA of Cement.

Main machineries to be installed in integrated Cement unit is as below:

- i. Limestone Crusher
- ii. Corrective/Additive Crusher
- iii. Coal Crusher
- iv. Raw material Grinding
- v. Kiln
- vi. Cooler
- vii. Coal mill
- viii. Cement Grinding
- ix. Packing machine



The water requirement for plant, colony and WHRS has been estimated as about 2500 m³/Day. Details of water requirement is as below:

- **Cement Plant:** 2,100 m³/Day
- **Drinking, Sanitation and Plantation:** 100 m³/Days
- **Mines:** 150 m³/Day
- **Waste heat Recovery System (WHRS):** 150 m³/Day

Water requirement is envisaged to be primarily met from mines pits, check dams, rain harvesting etc. beside Ken River. For domestic purposes, water requirement may be augmented by utilizing underground sources.

The maximum power demand for the under construction plant and mines has been estimated as about 34MW which is proposed to be met through a combination of Grid and Waste heat recovery system (WHRS) based thermal power plant.

Geographical Conditions on the site:

- i. The area has generally hot climate. The maximum temperature is around 45 Degree Celsius while the minimum is 8 Degree Celsius.
- ii. The average annual rainfall of this area is about 800 mm.
- iii. The annual relative humidity varies between 30% to 90%.
- iv. The above plant site area falls in Seismic Zone III.



4.2 CLINKER GRINDING UNIT (GU) OF 2 Million Output TPA CEMENT PRODUCTION CAPACITY

Grinding unit of Capacity 2 Million output TPA of Cement is located at District Hamirpur, Uttar Pradesh. As estimated by JCL, the under construction project will require about 27 Acres which translates to approx. 11 Hectares of land for the purpose of setting up the under construction Grinding unit. The same area is also approved as per environment clearance.

Clinker grinding unit (GU) is located at Hamirpur district, Uttar Pradesh. The district falls under Chitrakoot Division. **As per the product mix details provided by the borrower, they have planned to manufacture 100% Portland Pozzolona Cement (PPC).** The plant technical concept conceptualizes use of modern energy efficient and environment friendly material transport, handling, storage, grinding, packing and dispatch systems. The core grinding circuit is envisaged to constitute of inbound material unloading and handling through bulk receiving units with truck tipping systems; optimized and just sufficient material storages; vertical roller mill for grinding; rotary packing machines with truck & bulk loading systems, and a suitable hot gas generator for moisture mitigation and mill operations. The plant technical concept envisages to have suitable and adequate infrastructure along with stipulated green belt provisions.

Main machineries envisaged for the project area:

- i. Cement grinding mill
- ii. Cement Mill hoppers
- iii. Cement dispatch packing machine and loading machines
- iv. Hot air generator

As per Environment clearance (EC) issued to the project by Ministry of Environment, Forest and Climate Change (MoEFCC) and Industrial Entrepreneur Memorandum (IEM) from Ministry of Commerce & Industry the project has been granted approval for manufacturing of 2 million TPA of PPC. In addition to the environment clearance the project has also obtained Consent to Establish (CTE) from UP Pollution Control Board for Production of PPC up to 1,50,000 MT per month which translates to 1.8 Million TPA, OPC up to 16,600 MT per month which translates to 0.2 Million TPA apart from other products like PSC (16,600 MT per month) and Cement composites (16,600 MT per month).



The total water requirement for the project is envisaged to be about 300m³/Day, which is envisaged to be met from underground sources and secondary sources like rainwater harvesting etc.

The total maximum power demand for the under construction plant has been estimated as about 12MW, which is envisaged to be met from the sumerpur grid substation of UP Power transmission corporation limited (UPPTCL) located at about 6Km from the under construction plant.

Geographical Conditions on the site:

- i. The terrain of the location/area is generally flat and The Plant site area falls at the cusp of Seismic Zone II and Seismic Zone III.
- ii. The average annual temperature is about 25 Degree Celsius. The average minimum and maximum temperature recorded in the past few decades has been 18 Degree Celsius and 32 Degree Celsius respectively while the record minimum and maximum temperatures have been 0 Degree Celsius and 47 Degree Celsius.
- iii. The area witnesses a dry winter Humid Subtropical Climate.

5. SCOPE OF WORK DURING PROJECT DURATION:

- I. To Conduct Site reviews, document reviews and study progress reports on continuous basis specially vis-à-vis Original timelines to avoid sudden shocks of overrun.
- II. To determine progress achieved and appropriateness of related transactions. The consultant shall also flag any issue which is resulting in Non-performance/ under performance by the contractor. All payments to related parties should be closely monitored and highlighted to the consortium.
- III. Deviations in project progress vis-à-vis timelines and amount disbursed. High value payment/dues to be clearly monitored and highlighted to the consortium.
- IV. Periodical review of invoices and submission of exception report to the consortium.
- V. Fortnightly review of production/supplies (quantities of works certified) vi-a-vis inventory consumption records, cash flow to contractor, sub-contractor and vendors, wastages, extent of work and quality non conformities raised by borrower and highlight exceptions. A single review report will be released each fortnight for invoices raised and inventory consumed in that period.
- VI. Suggestions, if any for improving the project management practices.



VII. Perform such other services as request by the lenders and mutually agreed to by the party and lenders.

Note:

1. The above scope of work if for the complete duration and is not for a specific report.
2. Carrying out the scope of work will depend on the details/ information/ data provided to us by the borrower from time to time.

6. PURPOSE OF THE REPORT: To provide fair detailed analysis report to the Bank based on the “in-scope points” mentioned above for facilitating them to take appropriate credit decision on the Project.

7. METHODOLOGY ADOPTED:

- a. Study of Project Planning documents/ reports to know about the Project.
- b. Additional information, data, documents collection the borrower.
- c. Study and analysis of the documents and information obtained from the borrower.
- d. Research about the Project/ sector from the sources in the public domain.
- e. Correlation of the provided information against Industry/ sector benchmarks/ trend.
- f. Information compilation, analysis and reporting.



PART C

**PLANT INFRASTRUCTURE SECTIONS & FACILITY DETAILS WITH
ACTUAL PROGRESS**

1. LAND DETAILS:

1.1 PROJECT 1: INTEGRATED UNIT (IU)

As per TEFR of the project, the borrower has proposed an expenditure amounting to Rs.474.95 Crore towards land and site development. Breakup of Rs.474.95 Crore is below:

(Amount in Rs. Crore)

Sr. No.	Particular	Amount
1.	Land cost for Plant (Govt. Land)	424.20
2.	Land cost for plant (Private Land)	
3.	Land cost for mining area (Govt land)	
4.	Land cost for mining area (Private Land)	
5.	Mines development expenses	1.24
6.	Site preparation, levelling and grading	1.50
7.	Geo technical, hydrological investigation and topographic	0.60
8.	Boundary wall	7.33
9.	Gates, security pickets etc.	0.30
10.	Approach road	6.27
11.	Plant internal roads	13.41
12.	Truck parking, logistics offices and other semi paved areas	11.09
13.	Plant drainage	8.61
14.	Landscaping and provision of green belt	0.40
	Grand total	474.95

As per TEFR Prepared by HOLTEC, Jaykaycem (Central) Limited plans to acquire about 480 acres of land for setting up of the Integrated cement plant. Fresh update on status of purchase of land was sought from the borrower. Accordingly, the borrower has informed that they have already acquired the land required for construction of Integrated unit. As per present status based on our site inspection, land has been acquired and borrower is in possession of the land where construction works are going on in full swing. However, we have not received any supporting document for the same. Lender are advised to take the same from the borrower.

As per TEFR prepared by HOLTEC, JCL has proposed 1060 Acres (429.14 ha.) of land for mining purpose. However, the borrower has already obtained Environment clearance form Ministry of Environment, Forest and Climate for 1594.34 Hectare (3938 Acres). As per HOLTEC report, borrower has planned to initially purchase 621.075 ha. Fresh update on status of purchase of land was sought from the borrower. However, we have not received any supporting document for the same. Lender are advised to take the same from the borrower.



1.2 PROJECT 2: GRINDING UNIT (GU)

As per TEFR of the project the borrower has proposed an expenditure amounting to Rs.22.70 Crore towards Land and Site Development. Breakup of Rs.22.70 Crore is below:

(Amount in Rs. Crore)

Sr. No.	Particular	Amount
1.1	Capital Cost of procured land for setting up the plant	9.00
1.2	Site preparation & development	0.50
1.3	Site enabling investigations (Topographical, Geotechnical & Hydrological)	0.50
1.4	Boundary Wall	1.25
1.5	Gates, Security Pickets, etc.	0.30
1.6	Approach Road to Plant	1.90
1.7	Plant Internal Roads	4.00
1.8	Truck Parking & Logistics Office	3.70
1.9	Plant Drainage	1.35
1.10	Landscaping and Provision of Green Belt	0.20
	Sub-total (1.0)	22.70

As per TEFR JCL was in process of procuring a land patch of about 27 Acres area for the purpose of setting up of grinding unit at the time of TEFR preparation. Similar area admeasuring 26.33 acres is also approved by Ministry of Environment, Forest and Climate Change. Fresh update on status of purchase of land was sought from the borrower. Accordingly, the borrower has informed that they have already acquired the land required for construction of grinding unit. As per present status based on our site inspection, land has been acquired and borrower is in possession of the land where construction is going on in full swing. However, we have not received any supporting document for the same to confirm the actual land area been acquired. Lenders to take the same from the borrower.

2. BUILDING & STRUCTURAL DETAILS:

2.1 PROJECT 1: INTEGRATED UNIT (IU)

JCL has planned following Building/ structures as per the requirement of the Plant:

STRUCTURE OF EQUIPMENTS	CAPACITY OF STRUCTURES
Lime stone Crusher	Crusher Capacity: 1300 TPH (Proposed) Wobbler Feeder capacity: 1600 TPH (Proposed)
Limestone pre blending stockpile	Storage Capacity: 2 X 40,000 t (Proposed) Limestone stacker capacity: 1600 TPH (Proposed) Limestone reclaimers capacity: 900 TPH (Proposed)
Corrective/Additive crushing	Capacity: 1 X 300 TPH (Proposed)
Corrective/Additive & Blending Material storage	Bauxite Corrective storage: 7500 t (Proposed) Iron Ore Corrective storage: 7500 t (Proposed) Gypsum storage: 2100 t (Proposed) Limestone Storage: 1000 t (Proposed) Pond ash: 5000 t (Proposed)
Fuel handling, storage and transport	Fuel storage: 2 X 10,000 t (Indian coal) (Proposed) and 2 X 3000 t (Pet Coke) (Proposed) Fuel stacker: 1 X 300 TPH (Proposed) Fuel side scraper: 1 X 200 TPH (Proposed)
Fuel crushing and transport	Capacity: 1 X 300 TPH (Proposed)
Fuel drying and grinding	-
Raw material drying and Grinding	Closed Circuit Ball mill capacity: 2 X 375 TPH (Proposed)
Raw material Blending and Kiln Feed	Raw mill blending silo capacity: 10000 t (Proposed)
Waste heat recovery System (WHRS)	22 MW
Cement Grinding system	Vertical Raw mill (VRM) capacity: 300 TPH@3600 Blaine (Proposed)
Cement storage	Cement storage capacity: 3 X 5000 t (Proposed)
Cement packing and dispatch:	Capacity: 2 X 240 TPH (Proposed)
Preheater, Pre-Calciner, Kiln and Cooler	-
Fuel firing system	-

Limestone handling and transportation to stockpile	-
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As per HOLTEC report, for development of above listed sections, JCL has estimated Rs.378.63 Crore in Building/ structures out of total project cost amounting to Rs.2970.29 Crore. Bifurcation of Rs.378.63 Crore is as below:

(Amount in Rs. Crore)		
Sr. No.	Particular	Amount
1.	Main factory Buildings	85.65
2.	Silos, Hoppers, Storages, Covered Gantry etc.	69.45
3.	Auxiliary services	28.64
4.	Office/Non factory buildings and mine building	7.52
5.	Residential Colony	64.05
6.	Equipment foundations cost	29.85
7.	Deep foundations cost provisioning on account of possibility of weaker soil bearing capacity	33.40
8.	Indicative GST on Civil works	60.07
	Total	378.63

→ Detailed breakup of above building sections is below:

(Amount in Rs. Crore)			
Sr. No.	Description	Building Cost	Equipment foundation Cost
1. Main Factory Building			
1.1	Limestone crusher complex (including retaining wall, ramp, stone pitching, etc.)	10.90	1.35
1.2	Correctives & Additive crusher house (including short ramp, pitching, etc.)	1.00	0.25
1.3	Raw mills complex	10.40	2.10
1.4	Raw mill bag house & stack support structure	7.20	0.90
1.5	Preheater tower (Six stage, Double string)	24.15	0.35
1.6	Rotary Kiln Piers, Walkways, TA duct support	1.85	4.10
1.7	Clinker cooler house (including Dedusting structures & Stack supporting structure)	7.70	1.80
1.8	Coal Crusher House (incl. short retaining wall, ramp, stone pitching, etc.)	0.60	0.35
1.9	Coal mill house	7.45	2.05
1.1	HAG supporting structure	2.25	0.25
1.11	Cement mill house (including Dedusting structures & Stack supporting structure)	6.75	2.25
1.12	Packing plant, truck & bulk loading, bags godown	5.40	0.05
	SUB TOTAL (1.0)	85.65	15.80
2. Silos, Hoppers, Storages, Covered Gantry etc.			

2.1	Limestone pre blending stockpile (linear, covered, with S/R foundations)	3.50	4.50
2.2	Correctives storage (linear, covered, with S/R foundations)	1.55	1.95
2.3	Solid fuel storage (linear, covered, with S/R foundations)	1.85	4.65
2.4	Raw mill hoppers & building	3.40	0.10
2.5	Blending (Raw Meal) silo	6.30	0.20
2.6	Clinker silo & transport supporting structure	21.75	0.20
2.8	Clinker load-out silos (4nos.)	2.95	0.15
2.9	Gypsum, pond ash and sweetener storage (linear, covered)	2.90	0.00
2.10	Cement mill hoppers & building	3.40	0.10
2.11	Fly ash silo	4.00	0.10
2.12	Cement silos	13.85	0.15
2.13	AFR Storage	4.00	0.15
	SUB TOTAL (2.0)	69.45	12.25
3. Auxiliary Services			
3.1	Switch yard	0.45	0.61
3.2	Main indoor substation	1.45	0.20
3.3	CCR, including Lab, Technical Offices, etc.	5.42	0.05
3.4	Load centres & MCC rooms	5.30	0.20
3.5	Electrical/ Mechanical Workshop & Yard	0.72	0.10
3.6	Compressor house & rooms	0.75	0.11
3.8	Belt conveyors, TTs, etc. (plant internal; partly with gallery & partly locally covered)	7.15	0.00
3.9	Water Storage (UG+OH)	2.65	0.05
3.10	Weigh Bridges & Weigh Rooms	0.35	0.25
3.11	Overhead cable galleries	2.50	0.00
3.12	Dump hoppers & Truck tippler foundations	1.30	0.20
3.13	Cable Tunnels, Trenches, etc.	0.60	0.00
	SUB TOTAL (3.0)	28.64	1.77
4. Office/ Non factory buildings, etc.			
4.1	Administrative & Services building	2.10	0.00
4.2	Gate house, Time & Security office	0.30	
4.3	Sales, Dispatch & Logistics offices	0.45	
4.4	General store & yard	0.95	
4.5	Canteens (Executive, Workers, Truckers, etc.)	0.35	
4.6	Shift units/ washrooms (in general/common areas)	0.40	
	SUB TOTAL (4.0)	4.55	
5. Mines offices, buildings, services, etc.			
5.1	Mines offices & basic workshop (Basic provisioning only)	2.17	0.00
5.2	Mines load centre	0.35	0.05
5.3	Magazine building	0.40	0.00
	SUB TOTAL (5.0)	2.92	0.05
6. Residential Colony & Social Amenities			



7.1	Unit Head's Villa - 1 no. of ~250 sqm	0.65	0.00
7.2	TH/CH House - 02 nos of ~225 sqm	1.10	
7.3	Type A Quarters - 8 nos. of ~200 sqm each	3.25	
7.4	Type B Quarters - 16 nos. of ~150 sqm each (Multi Storey)	4.75	
7.5	Type C Quarters - 32 nos. of ~125 sqm each (Multi Storey)	9.00	
7.6	Type D Quarters - 40 nos. of ~100 sqm each (Multi Storey)	8.00	
7.7	Type E Quarters - 120 nos. of ~80 sqm each (Multi Storey)	0.00	
7.8	Bachelor Executives' Hostel - 1 no.	1.75	
7.9	Workers' Dormitories - 2 nos.	0.70	
7.10	Occupational Health Centre	.80	
7.11	Temple complex	2.50	
7.12	Community hall, playground, shops, etc.	1.50	
7.13	Guest house	4.00	
7.14	Club, gymnasium, recreation, etc	1.25	
7.15	School building & allied facilities	10.00	
7.16	Other services (STP, WTP, roads, drains, water supply, green areas, etc.)	14.80	
	SUB TOTAL (7.0)	64.05	0.00
8.	Total (1.0+2.0+3.0+4.0+5.0+7.0)	255.26	29.89
9.	Deep foundations cost-provisioning (Indicative 10% lumpsum provisioning considered as Geotechnical investigations at proposed plant site are at preliminary level only)	30.40	3.00
10.	Indicative GST component on Civil works (average approx.18% of total civil cost considered for TEFR formulation purpose)	54.70	5.37
11.	Total Civil Works Cost (7.0+8.0+9.0)	340.36	38.26
	Grand Total	378.63	

Source: TEFR prepared by HOLTEC Consultancy

Notes:

1. The above estimation of cost is as per the TEFR prepared by HOLTEC consultancy. HOLTEC consultancy is very well established consultancy for such type of works and have greatly established themselves in this sphere.
2. Building Plans have been prepared by HOLTEC consultancy only.
3. Building Plans has not been sanctioned yet from the concerned Govt. authority.
4. The concerned building plans provided to us doesn't have individual measurements of various structures.

As per Layout Plan provided by the borrower following buildings are proposed to be constructed at site:

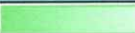










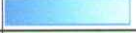







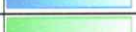
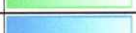

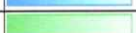

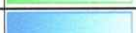


S.NO.	GENERAL PLANT DESCRIPTION	
1.	LIMESTONE CRUSHER	
2.	BRU FOR CORRECTIVE	
3.	LIMESTONE STOCKPILE	
4.	IRON ORE STOCKPILE	
5.	BAUNITE STOCKPILE	
6.	BRU FOR COAL/PETCOKE	
7.	RAW MATERIAL HOPPERS	
8.	RAW MILL HOUSE	
9.	RAW MILL BAG HOUSE AND LC-103	
10.	BLENDING SILO	
11.	PREHEATER	
12.	KILN & TA DUCT	
13.	COOLER	
14.	COOLER ESP	
15.	C.C.R. & LAB	
16.	CLINKER SILO	
17.	CLINKER TRUCK LOADING	
18.	ADDITIVE SHED	
19.	CEMENT MILL HOPPERS	
20.	FLYASH SILO	
21.	CEMENT MILL HOUSE	
22.	CEMENT SILOS	
23.	PACKING PLANT AND EMPTY BAGS GODOWN	
24.	TRUCK LOADING	
25.	COAL STOCKPILE	
26.	PETCOKE STOCKPILE	
27.	RAW COAL/PETCOKE HOPPER	
28.	COAL/PETCOKE MILL	
29.	SWITCHYARD & LC-108	
30.	LIMESTONE CRUSHER SUB-STATION	
31.	LC-106	
32.	LC-102	
33.	LC-107	
34.	LC-105	
35.	COMPRESSOR HOUSE -1	
36.	COMPRESSOR HOUSE -2	
37.	AFR SHED	
38.	RAW WATER RESERVOIR (100000 M3)+PUMP HOUSE	
39.	RAW WATER RESERVOIR (50000 M3)+PUMP HOUSE	
40.	MECHANICAL & ELECTRICAL WORKSHOP	
41.	GENERAL STORE	
42.	PROJECT OFFICE	
43.	GATE COMPLEX	
44.	ADMINISTRATION BUILDING	
45.	WORKS/RAW MATERIAL/PACKING ENTRY AND EXIT GATE	
46.	RAW MATERIAL/WEIGH BRIDGE WITH CABIN	
47.	PACKING PLANT/WEIGH BRIDGE WITH CABIN	
48.	STC	
49.	TRUCK PARKING	
50.	RAW AND TREATED WATER TANK + WTP	

rk ASSOCIATES

Progress of Building and Civil Structures as per site visit dated 9th December 2021 to Integrated Unit.:

Sr. No.	DESCRIPTION	Building Progress	Foundation progress
1	Main Factory Building		
1.1	Limestone crusher complex (including retaining wall, ramp, stone pitching, etc.)	0%	0%
1.2	Correctives & Additive crusher house (including short ramp, pitching, etc.)	0%	0%
1.3	Raw mills complex	70%	90%
1.4	Raw mill bag house & stack support structure	40%	80%
1.5	Preheater tower (Six stage, Double string)	55%	90%
1.6	Rotary Kiln Piers, Walkways, TA duct support	30%	45%
1.7	Clinker cooler house (including Dedusting structures & Stack supporting structure)	0%	45%
1.8	Coal Crusher House (incl. short retaining wall, ramp, stone pitching, etc.)	0%	0%
1.9	Coal mill house	40%	85%
1.1	HAG supporting structure	50%	65%
1.11	Cement mill house (Including Dedusting structures & Stack supporting structure)	70%	85%
1.12	Packing plant, truck & bulk loading, bags godown	80%	90%
2	Silos, Hoppers, Storages, Covered Gantry, etc.		
2.1	Limestone preblending stockpile (linear, covered, with S/R foundations)	0%	0%
2.2	Correctives storage (linear, covered, with S/R foundations)	0%	0%
2.3	Solid fuel storage (linear, covered, with S/R foundations)	0%	0%
2.4	Raw mill hoppers & building	70%	85%
2.5	Blending (Raw Meal) silo	85%	90%
2.6	Clinker silo & transport supporting structure	60%	85%
2.8	Clinker load-out silos (4 nos.)	60%	85%
2.9	Gypsum, pond ash and sweetener storage (linear, covered)	45%	75%
2.1	Cement mill hoppers & building	75%	90%
2.11	Flyash silo	90%	90%
2.12	Cement silos	90%	90%
2.13	AFR Storage	0%	0%
3	Auxiliary Services		
3.1	Switch yard	60%	70%
3.2	Main indoor substation	0%	0%
3.3	CCR, including Lab, Technical Offices, etc.	70%	95%
3.4	Load centres & MCC rooms	40%	55%
3.5	Electrical/ Mechanical Workshop & Yard	50%	90%
3.6	Compressor house & rooms	0%	0%
3.8	Belt conveyors, TTs, etc. (plant internal; partly with gallery & partly locally covered)	15%	15%
3.9	Water Storage (UG+OH)	80%	80%
3.1	Weigh Bridges & Weigh Rooms	0%	0%
3.11	Overhead cable galleries	0%	0%
3.12	Dump hoppers & Truck tippler foundations	0%	0%
3.13	Cable Tunnels, Trenches, etc.	20%	20%

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4	Office/ Non factory buildings, etc		
4.1	Administrative & Services building	 70%	 90%
4.2	Gate house, Time & Security office	 75%	 90%
4.3	Sales, Dispatch & Logistics offices	 0%	 0%
4.4	General store & yard	 0%	 0%
4.5	Canteens (Executive, Workers, Truckers, etc.)	 0%	 0%
4.6	Shift units/ washrooms (in general/common areas)	 0%	 0%
5	Mines offices, buildings, services, etc.		
5.1	Mines offices & basic workshop (Basic provisioning only)	 0%	 0%
5.2	Mines load centre	 0%	 0%
5.3	Magazine building	 0%	 0%
5.4	Mines garage (Future)	 0%	 0%
7	Residential Colony & Social Amenities		
7.1	Unit Head's Villa - 1 no. of ~250 sqm	 65%	 0%
7.2	TH/CH House - 02 nos of ~225 sqm	 65%	 0%
7.3	Type A Quarters - 8 nos. of ~200 sqm each	 65%	 0%
7.4	Type B Quarters - 16 nos. of ~150 sqm each (Multi Storey)	 65%	 0%
7.5	Type C Quarters - 32 nos. of ~125 sqm each (Multi Storey)	 65%	 0%
7.6	Type D Quarters - 40 nos. of ~100 sqm each (Multi Storey)	 65%	 0%
7.7	Type E Quarters - 120 nos. of ~80 sqm each (Multi Storey)	 65%	 0%
7.8	Bachelor Executives' Hostel - 1 no.	 65%	 0%
7.9	Workers' Dormitories - 2 nos.	 65%	 0%
7.1	Occupational Health Centre	 65%	 0%
7.11	Temple complex	 65%	 0%
7.12	Community hall, playground, shops, etc.	 65%	 0%
7.13	Guest house	 65%	 0%
7.14	Club, gymnasium, recreation, etc	 65%	 0%
7.15	School building & allied facilities	 65%	 0%
7.16	Other services (STP, WTP, roads, drains, water supply, green areas, etc.)	 65%	 0%

Note:

1. The Physical progress captured in above table is based on approximate observations of status of structures constructed on site during our site inspection and our subsequent discussions held with the engineers with which the site visit was conducted. Thus the above progress is on approximate basis which may vary from 5%-10%.
2. Since the borrower has not provided us the breakup of expenditure in separate heads and in the absence of quantity constructed we have only given the general analysis of status of construction that was observed during site visit. To summarise, the project is working on full swing and satisfactory progress was observed during site visit and the project is anticipated to start the commercial operations by April 2023.

2.2 PROJECT 2: GRINDING UNIT (IU)

JCL Envisages setting up of below mentioned units/Sections in the Project

STRUCTURE OF MACHINERIES	CAPACITY OF MACHINERIES
Clinker, Gypsum and Coal/Handling, Transport and Storage	Storage Capacity: 300 TPH
Fly ash and pond ash/Handling, Transport and storage	Storage Capacity: 5000 t
Cement grinding system	Cement mill capacity: 300 TPH
Hot Air generator	-
Cement storage	Silos Capacity: 2 X 5000 t
Cement packing, loading and dispatch	Packing capacity: 2 X 240 TPH
Clinker, Gypsum and Coal/Handling, Transport and Storage	-

For setting up/Development of above listed sections, JCL has estimated Rs.82.05 Crore out of Total project cost amounting to Rs.2970.29 Crore. Bifurcation of Rs.82.05 Crore is as below:

(Amount in Rs. Crore)

Sr. No.	Particulars	Amount
1.	Main factory buildings	17.85
2.	Silos, Hoppers, Storages, Covered Gantry etc.	31.00
3.	Auxiliary services	12.20
4.	Office/Non factory buildings and mine building	2.50
5.	Deep foundations cost provisioning on account of possibility of weaker soil bearing capacity	4.00
6.	Indicative GST on Civil works	14.50
	Total	82.05

→ Details of Rs.82.05 Crore is as below:

(Amount in Rs. Crore)

Sr. No.	Description	Building Cost	Equipment Foundation Cost
1. Main Factory Building			
1.1	HAG supporting structure	2.20	0.30
1.2	Cement mill house & Dedusting building	10.25	2.25
1.3	Packing plant, truck loading, bags godown	5.40	0.05
	SUB TOTAL (1.0)	17.85	2.60
2. Silos, Hoppers, Storages, Covered Gantry, etc.			
2.1	Foundation network for linear & covered storage sheds for Gypsum, Pond ash & Coal	1.10	0.00
2.2	Clinker silo & transport supporting infrastructure	13.65	0.20
2.3	Support structure for cement mill hoppers (hoppers excluded)	2.10	0.10
2.4	Dry Flyash silo	4.60	0.10
2.5	Cement silos (2nos. RCC silos)	8.50	0.10
2.6	Cement silo (1no. Steel silo)	1.05	0.05
	SUB TOTAL (2.0)	31.00	0.55
3. Auxiliary Services			
3.1	Switchyard & Main receiving substation	0.90	0.30
3.2	CCR, Technical office, Laboratory, etc.	3.80	0.00
3.3	MCC rooms & Load centres	2.10	0.10
3.5	Compressor house	0.45	0.08
3.6	Foundations & pedestals for belt conveyor galleries & transfer towers	1.50	0.00
3.7	Water storage (UG+OH) & Water treatment plant	1.10	0.10
3.8	Weigh bridges & Weigh rooms	0.05	0.15
3.9	BRU & truck tippler foundations with common ramp for receiving clinker & gypsum	1.65	0.35
3.1	Foundations & pedestals for Overhead cable galleries	0.45	0.00
3.11	Cable tunnels & trenches, etc.	0.20	0.00
	SUB TOTAL (3.0)	12.20	1.08
4. Office/ Non factory Buildings, etc.			
4.1	Administration & services office block	0.65	0.00
4.2	Time, security & dispatch offices block	0.20	
4.3	Executives' & workers' canteens	0.65	
4.4	General store & yard	0.80	
4.5	Shift units/ washrooms (in general/common areas)	0.20	
	SUB TOTAL (4.0)	2.50	0.00
7.	Total civil cost (1.0+2.0+3.0+4.0)	63.55	4.23



8.	Deep foundations cost-provisioning (Indicative 5% lumpsum provisioning considered; Geotechnical investigations at proposed plant site not carried out yet)	3.80	0.20
9.	Indicative GST component on Civil works (average approx.18% of total civil cost considered for TEFR formulation purpose)	13.75	0.75
10.	Total Civil Works Cost (7.0+8.0+9.0)	81.10	0.95
Grand Total		82.05	

5. The above estimation of cost is as per the TEFR prepared by HOLTEC consultancy. HOLTEC consultancy is very well established consultancy for such type of works and have greatly established themselves in this sphere.
6. Building Plans have been prepared by HOLTEC consultancy only.
7. Building Plans has not been sanctioned yet from the concerned Govt. authority.
8. The concerned building plans provided to us doesn't have individual measurements of various structures.

As per Layout Plan provided by the borrower following buildings are proposed to be constructed at site:

S.NO.	GENERAL PLANT DESCRIPTION
1.	BULK RECEPTION UNIT FOR CLINKER/ADDITIVE
2.	CLINKER SILO
3.	GYPSUM/ POND FLYASH & COAL STORAGE YARD
4.	CEMENT MILL HOPPERS
5.	CEMENT MILL BUILDING
6.	CEMENT MILL BAGHOUSE
7.	HOT AIR GENERATOR (HAG)
8.	FLYASH SILO
9.	CEMENT SILOS
10.	PACKING PLANT
11.	EMPTY BAGS GODOWN
12.	TRUCK LOADING PLATFORM
13.	COMPRESSOR ROOM (BELOW C/MILL BAG HOUSE)
14.	WATER TANK AND PUMP ROOM
15.	CCR & ADMIN BLDG. (INCL. LAB & LOAD CENTER)
16.	DOZER ENTRY
17.	CANTEEN
18.	GATE HOUSE
19.	ROAD WEIGH BRIDGE
20.	WEIGH BRIDGE CABIN
21.	TRUCK PARKING
22.	RECEIVING SUBSTATION & METERING ROOM
23.	SANITARY BLOCK
24.	AIR QUALITY MONITORING STATION
25.	GROUND WATER RECHARGING POINT
26.	CEMENT MILL BAGHOUSE STACK
27.	STORE
28.	COAL CRUSHER (FUTURE PROVISION)

Progress of Building and Civil Structures as per site visit dated 8th December 2021 to Grinding Unit at Hamirpur:

Sr. No.	Description	Building Progress Percentage	Foundation Progress percentage
1 Main Factory Building			
1.1	HAG supporting structure	0%	0%
1.2	Cement mill house & dedusting building	15%	80%
1.3	Packing plant, truck loading, bags godown	15%	80%
2 Silos, Hoppers, Storages, Covered Gantry, etc.			
2.1	Foundation network for linear & covered storage sheds for Gypsum, Pond ash & Coal	20%	40%
2.2	Clinker silo & transport supporting infrastructure	0%	90%
2.3	Support structure for cement mill hoppers (hoppers excluded)	0%	0%
2.4	Dry Flyash silo	15%	55%
2.5	Cement silos (2nos. RCC silos)	15%	70%
2.6	Cement silo (1no. Steel silo)	0%	0%
3 Auxiliary Services			
3.1	Switchyard & Main receiving substation	0%	0%
3.2	CCR, Technical office, Laboratory, etc.	45%	70%
3.3	MCC rooms & Load centres	45%	50%
3.5	Compressor house	0%	0%
3.6	Foundations & pedestals for belt conveyor galleries & transfer towers	10%	10%
3.7	Water storage (UG+OH) & Water treatment plant	25%	30%
3.8	Weigh bridges & weigh rooms	70%	85%
3.9	BRU & truck tippler foundations with common ramp for receiving clinker & gypsum	0%	0%
3.1	Foundations & pedestals for Overhead cable galleries	0%	0%
3.11	Cable tunnels & trenches, etc.	20%	25%
4 Office/ Non factory Buildings, etc			
4.1	Administration & services office block	0%	0%
4.2	Time, security & dispatch offices block	0%	0%
4.3	Executives' & workers' canteens	0%	0%
4.4	General store & yard	0%	0%
4.5	Shift units/ washrooms (in general/common areas)	0%	0%
7	Total (1.0+2.0+3.0+4.0+5.0+6.0)	0%	0%
8	Deep foundations cost-provisioning (Indicative 5% lumpsum provisioning considered)	0%	0%
9	Indicative GST component on Civil works (average approx.18% of total civil cost consid	0%	0%
10	Total Civil Works Cost (7.0+8.0+9.0)	0%	0%

Note:

- The Physical progress captured in above table is based on approximate observations of status of structures constructed on site during our site inspection and our subsequent discussions held with the engineers with which the site visit was conducted. Thus the above progress is on approximate basis which may vary from 5%-10%.
- Since the borrower has not provided us the breakup of expenditure in separate heads and in the absence of quantity constructed we have only given the general analysis of status of construction that was observed during site visit. To summarise, the project is working on full swing and satisfactory progress was observed during site visit and the project is anticipated to start the commercial operations by April 2023.



3. PLANT MACHINERY & EQUIPMENT:

3.1 PROJECT 1: INTEGRATED UNIT (IU)

JCL proposes to install below mentioned machineries/Equipment at the project site:

- Crushers
- Stockpile stackers and reclaimers
- Clinker extraction system,
- Steel for duct/chute/hoppers/chimneys
- Plant belt conveyors
- 4 no's of passenger lifts
- Compressors and dries
- HT motors
- LT motors
- Fire detection system
- Air conditioning
- Misc. electrical

For installing above listed machinery/Equipment, JCL has estimated Rs.1,285.24 Crore out of Total project cost amounting to Rs.2970.29 Crore. Bifurcation of Rs.1,285.24 Crore is as below:

(Amount in Rs. Crore)

Details of Mechanical and Electrical Equipment's		
Sr. No.	Description	F.O.B.
1.	Total Cost of Mechanical and electrical equipment's	895.11
2.	Equipment for distribution of Power	148.63
3.	Waste heat recovery system (WHRS) based power plant	200.00
4.	Mining Machinery	41.50
	Total	1285.24



Detailed breakup of **Mechanical and Electrical equipment's** and **Equipment for Distribution of power** is as below:

(Amount in Rs. Crore)

Details of Mechanical and Electrical Equipment's			
Sr. No.	Description	F.O.B.	F.O.R.
1.0	Mechanical Equipment		
1.1	Crushers		
1.1.1	Limestone crushing and wobbler	-	20.00
1.1.2	Coal Crushing	-	1.00
1.1.3	Additive/ Corrective Crusher	-	1.50
1.2	Stockpiles stackers & Reclaimers including the following:		
1.2.1	Limestone Storage, Stacker & Reclaimer including shed	-	26.66
1.2.2	Corrective Storage Stacker & Reclaimer including shed	-	17.01
1.2.3	Coal storage stacker and reclaimer including shed	-	15.73
1.3	Material Grinding and Pyro Processing including the following:		
1.3.1	Raw Material and Coal Drying and Grinding including Baghouse	23.15	92.60
1.3.2	Blending Silo feed B/El, Silo, kiln feed, Clinkerisation (upto clinker silo extraction), Fine coal firing from silo extraction including ESP	25.00	100.00
1.3.3	Clinker transport to mill through DPC, Clinker drying & grinding (Up to cement silo feed B/E) including Bag house	28.00	42.00
1.4	Cement Silo's and packing plant		
1.4.1	Clinker extraction system	-	1.50
1.4.2	Cement extraction from cement silo up to rotary packers including steel cement silo		7.64
1.4.3	Packing, truck loaders and bulk loading.		8.60
1.4.4	Clinker loading to trucks		2.50
1.4.5	AFR system with Shed		20.77
1.4.6	Fly ash Silo	-	1.50
	Sub-total of Main Machinery (1.0)	76.15	359.01
2.0	MECHANICAL AUXILIARY EQUIPMENT(S)		
2.1	Steel for Duct/ Chute/hoppers/chimneys 8,000 t @ Rs.46200/ t	-	36.96
2.2	Plant belt conveyors including belting 3,500 m @ Rs.45,000/ m	-	15.75
2.3	Over Land belt conveyor (OLBC) 000 m @ Rs.55,000/ m	-	
2.5	Refractory & Castable 8,000 t @ Rs.5,000/ t	-	28.00
2.6	Insulation 70,000 m2 @ Rs.1130/ sq. m	-	7.91
2.7	Lubricants	-	1.60
2.8	Passenger Lifts (4 nos)	-	1.50
2.9	Roots Blowers	-	
2.10	Compressors & Driers including piping	-	3.50
2.11	Misc. items like Water Tank, Water Pump, Water Piping, Compressed Air Piping, etc.	-	4.62
2.12	BRU & Truck Tippler (4 nos.)	-	2.80



2.13	Cranes/Hoists and other misc. items including HAG, N2 system etc.	-	6.50
	Sub-total of Mechanical Auxiliary Equipment (2.0)	0	109.14
	Total of Mechanical Equipment (1.0 + 2.0)	76.15	468.15
3.0	Electrical and Instrumentation		
3.1	HT Motors	-	9.60
3.2	LV & MV AC variable Speed Drives	-	15.05
3.3	LT Motors	-	6.27
3.4	Cross Belt Analyser, XRF, XRD, etc	2.50	4.81
3.5	Control & Automation and Field Instruments & Robo Lab	-	24.57
	Total Electrical and Instrumentation (3.0)	2.50	60.30
	Total Mechanical and Electrical equipment (1.0+2.0+3.0)	78.65	528.45
4.0	Landed cost of equipment		
4.1	Imported equipment		
4.1.1	F.O.B Cost		78.65
4.1.2	Ocean Freight, Insurance, etc. @ 6 % of (4.1.1)		4.72
4.1.3	Basic import duty @ 7.5 % of (4.1.1 + 4.1.2)		6.25
4.1.4	IGST @ 18 % of (4.1.1 to 4.1.3)		16.13
4.1.5	Clearing/ Loading/ Inland freight, etc. @ 5 % of (4.1.1 + 4.1.2)		4.17
	Sub-total of imported equipment (4.1)		109.92
4.2	Indigenous Equipment		
4.2.1	F.O.R cost		528.45
4.2.2	GST @ 18 % on F.O.R.		95.1201
4.2.3	Freight, handling, insurance, etc. @ 5 % of 4.2.1		26.42
	Sub-total of indigenous equipment (4.2)		649.99
	Total landed cost of equipment (4.1 + 4.2)		759.91
5.0	Spare parts @ 5 % of F.O.B. + F.O.R.		30.35
6.0	Fabrication of Duct/ Chute/hoppers/chimneys 8,000 t @ Rs 20,000/ t		16.00
7.0	Erection, commissioning & supervision charges @ 12 % of (F.O.R. + F.O.B)		72.85
8.0	GST @18% on (6.0+7.0)		15.99
	Total cost of Mechanical and Electrical equipment		895.11
	TOTAL COST OF EQUIPMENT (4.1+ 4.2+5.0+6.0+7.0+8.0)		895.11

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(Amount in Rs. Crore)

Equipment's for Distribution of Power		
Sr. No.	DESCRIPTION	F.O.R.
1.	Power distribution equipment	
1.1	132 kV Transmission line ~45 Km	22.50
1.2	132 kV yard at sub-station	1.00
1.3	Development charges/Security deposit	4.90
1.4	Supervision charges SEB (10% of line cost)	2.25
1.5	Incomer switchyard and power transformer	5.87
1.6	11 KV Switch board with Capacitor Bank	6.61
1.7	11/0.433 kV , Distribution transformer with bus duct	5.44
1.8	LT switchboards and bus trunkings	4.45
1.9	MCC & Push button Station	7.09
1.10	LV Capacitor	1.80
1.1	Capacitor and Reactor for 11 KV HT motors	1.80
1.12	LRS/GRR/GRS	1.80
1.13	Earthing, cable trays & Erection hardware	6.00
1.14	Cables - Power, Control & Instrumentation	18.18
1.15	Plant Illumination with LDB	3.72
1.16	Battery and Battery Charger with LRS	0.83
1.17	Ventilation System for Electrical Building	1.43
1.18	Air Conditioning	1.85
1.2	Fire Detection System	0.74
1.2	PA system for intercom and Telephone exchange	0.45
1.2	Mine Power Distribution	0.00
1.2	DG Sets for Construction (2 MW)	1.13
1.2	Construction Power	2.61
1.24	EMS/Synchronisation/load shedding	0.75
1.25	Non-plant buildings electrification	0.85
1.26	Misc. Electricals	0.50
	Sub total	104.55
2.0	Landed cost of equipment	
2.1	F.O.R cost	104.55
2.2	GST @ 18 % on F.O.R.	18.82
2.5	Freight, handling, insurance, etc. @ 5 % of 4.2.1	5.23
	Total landed cost of equipment	128.60
3.0	Spare parts @ 5 % of FOR cost	5.23
4.0	Erection, commissioning & supervision charges @ 12% of F.O.R.	12.55
5.0	GST @18% of 4.0	2.26
	Total cost of power distribution equipment	148.63



Apart from the above expenditure the borrower has also envisaged Waste heat recovery system (WHRS) amounting to Rs.200.00 Crore and mining machineries amounting to Rs.41.50 Crore.

Progress of Plant and machineries as per site visit dated 9th December 2021 to Integrated Unit.:

1. Structural steel used in hoppers,
2. Components of Cement mill
3. Components of Coal mill
4. Structural steel works in pre heater building
5. Fan blades
6. Fan casings
7. Coal mill ring
8. Rails in coal stacker and Reclaimer area
9. Stack pieces for Gas Duct
10. Shell ground works
11. Smoke chamber works in pre heater section
12. Bag filter works
13. Other small and miscellaneous machinery and other structural steel fabrication works.

Note:

1. We have not received the list of machineries delivered to the site/Invoices of the machineries. Therefore, the Physical progress captured in above table is based on approximate visual observations of status of machineries/Machinery Fabrication constructed on site during our site inspection and our subsequent discussions held with the engineers with which the site visit was conducted. Thus the above progress is on approximate basis which may vary from 5%-10%.
2. Since the borrower has not provided us the breakup of expenditure in separate heads and in the absence of quantity constructed we have only given the general analysis of status of construction that was observed during site visit. To summarise, the project is working on full swing and satisfactory progress was observed during site visit and the project is anticipated to start the commercial operations by April 2023.

3.2 PROJECT 2: GRINDING UNIT (GU)

JCL proposes to install below mentioned Machineries/Equipment:

- Material conveying system
- Material receiving system
- Passenger lifts
- Compressors and dryers
- HT Motors
- LT motors
- Auxiliary bag filters
- LT Switchboard and trunking
- UPS, Battery and Battery charger
- Air conditioning system
- DG Set
- Other misc. electrical

For installing above listed machineries/Equipment, JCL has estimated Rs.211.63 Crore out of Total project cost amounting to Rs.2970.29 Crore. Bifurcation of Rs.211.63 Crore is as below:

(Amount in Rs. Crore)

Details of Mechanical and Electrical Equipment's		
Sr. No.	Description	F.O.B.
1.	Total Cost of Mechanical and Electrical equipment (Net of GST)	149.30
2.	GST Component on P&M	24.50
3.	Equipment for Distribution of Power (Net of GST)	25.60
4.	GST component on power distribution equipment	4.20
5.	Equipment foundations	4.23
6.	Secondary equipment	
6.1	Laboratory equipment and Setup	0.85
6.2	Fire fighting equipment and hydrant system	0.40
6.3	Water treatment system	0.50
6.4.	Multi utility equipment	1.30
6.5	Weighbridges	0.75
	Grand Total	211.63



Detailed breakup of **Mechanical and Electrical equipment's** and **Equipment for Distribution of power** is as below:

(Amount in Rs. Crore)

Details of Mechanical and Electrical Equipment's			
Sr. no.	Description	F.O.B.	F.O.R.
1.0	Mechanical Equipment		
1.1	Gypsum & Pond ash handling, storage and transport to mill feed hoppers	-	0.75
1.2	Dry Fly Ash handling, transport, storage & feeding to mill	-	1.50
1.3	Coal handling, storage, feeding and transport (including HAG system)	-	2.05
1.4	Clinker transport, handling, storage, extraction & feeding system	-	2.25
1.5	Clinker grinding circuit & feeding to cement silos	24.00	36.00
1.6	Cement mill de-dusting	-	6.00
1.7	Cement extraction from silos up to packers	-	3.10
1.8	Packing, loading & dispatch (2 packers, 6 truck loaders and 1 bulk loader)		8.10
	Sub-total of Main Machinery (1.0)	24.00	59.75
2.0	MECHANICAL AUXILIARY EQUIPMENT(S)		
2.1	Structural Steel for sheds, hoppers, conveyors, ducts, chutes, etc. (approx. 2,250 t @Rs.50,000/ t)	-	11.25
2.2	Material conveying system (approx.1200m @Rs.40,000/ m)	-	4.80
2.3	Insulation (approx.8,500sqm @Rs.1000/ sqm)	-	0.85
2.4	Auxiliary bag filters (approx. 12nos.)	-	0.60
2.5	Lubricants	-	0.15
2.6	Material receiving system (Bulk receiving units with truck tippler facility, 2 nos.)	-	2.10
2.7	Passenger lift (for CCR)	-	0.25
2.8	Roots blowers	-	0.35
2.9	Compressors & dryers	-	0.60
2.10	Misc. items like water pump & pipeline, compressed air piping, etc.	-	0.60
2.11	Cranes/Hoists and other miscellaneous items, etc.	-	1.00
	Sub-total of Mechanical Auxiliary Equipment (2.0)	0.00	22.55
	Total of Mechanical Equipment (1.0 + 2.0)	24.00	82.30
3.0	Electrical and Instrumentation		
3.1	HT motors	-	2.35
3.2	LV & MV AC variable Speed Drives	-	1.65
3.3	LT motors	-	1.05
3.4	Table-top XRF	-	0.70
3.5	Control & Automation	-	2.60
	Total Electrical and Instrumentation (3.0)	0.00	8.35
	Total Mechanical and Electrical equipment (1.0+2.0+3.0)	24.00	90.65
4.0	Landed cost of equipment		

4.1	Imported Equipment	
4.1.1	F.O.B. Cost	24.00
4.1.2	Provisioning for Ocean Freight, Insurance, etc. (approx.@6% of 4.1.1)	1.45
4.1.3	Basic Import Duty provision (approx. @7.5% of 4.1.1 & 4.1.2)	1.90
4.1.4	GST (all taxes assumed to be clubbed under GST, approx.@18% of 4.1.1 to 4.1.3)	4.90
4.1.5	Clearing/ Loading/ Inland Freight, etc. (approx.@5% of 4.1.1 + 4.1.2)	1.25
	Sub-total of Imported Equipment (4.1)	33.50
4.2	Indigenous Equipment	
4.2.1	F.O.R. cost	90.65
4.2.2	GST provisioning on F.O.R. cost (@18% of 4.2.1)	16.30
4.2.3	Provisioning for freight, handling, insurance, etc. (approx.@5% of 4.2.1)	4.55
	Sub-total of Indigenous Equipment (4.2)	111.50
	Total Landed Cost of Equipment (4.1 + 4.2)	145.00
5.0	Provisioning for Spares (approx. @5% of F.O.B. & F.O.R. landed cost)	7.25
6.0	Fabrication of Str. Steel as in 2.1 above (2,250 t @Rs.20,000/ t)	4.50
7.0	Erection, Commissioning & Supervision Charges (approx.@12 % of F.O.R. + F.O.B.)	13.75
8.0	GST on Fabrication, erection & supervision charges (approx.@18% on (6.0+7.0))	3.30
	Total cost of Mechanical and Electrical equipment	173.80
A	Total landed cost of equipment	173.80
C	GST component on Plant & Machinery (approx. provisioning)	24.50
B	Total landed cost of equipment (Net of GST)	149.30

(Amount in Rs. Crore)

(Details of Power Distribution Equipment's)			
Sr. no.	Description	F.O.B.	F.O.R.
1.	Power distribution equipment		
1.1	Transmission line from Grid substation (33kV, approx.6 km)	-	3.60
1.2	Incomer switchyard & power transformer	-	2.00
1.3	6.6 kV switchboard	-	1.80
1.4	6.6 /0.433 kV distribution transformer	-	1.00
1.5	LT switchboard & trunking	-	1.20
1.6	MCC & push button Station	-	2.10
1.7	LV capacitors & control panel	-	0.35
1.8	Lighting transformer & main lighting distribution board	-	0.60
1.9	Cables (Power, Control & Instrumentation)	-	3.75
1.10	Construction power cables	-	0.35
1.11	Earthing, lighting protection & erection hardware	-	1.50
1.12	Plant Illumination	-	0.15
1.13	UPS, battery & battery charger	-	0.25



1.14	Ventilation system for electrical buildings	-	0.20
1.15	Air conditioning	-	0.20
1.16	PA system for intercom	-	0.05
1.17	Fire detection system	-	0.15
1.18	DG set for construction & emergency power supply	-	1.25
1.19	Miscellaneous electrical	-	0.25
	Sub-total (1.0)	0	20.75
2.0	Landed cost of equipment		
2.1	Imported Equipment		
2.1.1	F.O.B. Cost		0.00
2.1.2	Ocean Freight, Insurance, etc. (approx.@6% of 2.1.1)		0.00
2.1.3	Basic Import Duty (@7.5% of 2.1.1 & 2.1.2)		0.00
2.1.4	GST (all taxes assumed to be clubbed under GST, approx.@18% of 2.1.1 to 2.1.3)		0.00
2.1.5	Clearing/ Loading/ Inland Freight, etc. (approx.@5% of 2.1.1 + 2.1.2)		0.00
	Sub-total of Imported Equipment (2.1)		0.00
2.2	Indigenous Equipment		
2.2.1	F.O.R. cost		20.75
2.2.2	GST provisioning on F.O.R. cost (@18% of 2.2.1)		3.75
2.2.3	Provisioning for freight, handling, insurance, etc. (approx.@5% of 2.2.1)		1.05
	Sub-Total (2.0)		25.55
	Total Landed Cost of Equipment (2.1 + 2.2)		25.55
3.0	Provisioning for Spares (approx. @5% of total landed cost)		1.30
4.0	Erection, Commissioning & Supervision Charges (approx.@12 % of 2.1.1 + 2.2.1)		2.50
5.0	GST on erection & supervision charges (approx.@18% of 4.0)		0.45
A.	Total landed cost of Power Distribution Equipment (2.0+3.0+4.0+5.0)		29.80
B.	GST component on Power distribution (approx. provisioning)		4.20
C.	Total landed cost of Power Distribution Equipment (Net of GST)		25.60

Note: Due to confidentiality factor cited by the borrower, borrower has not shared with us any PO/Quotations/ Invoices of suppliers of above-mentioned machineries. However, we have physically verified some major contracts signed by them at borrower's registered office located in Kanpur on 8th December 2021, copies of which has not been availed to us.

[Signature]



Progress of Plant and machineries as per site visit dated 8th December 2021 to Grinding Unit.:

1. Weigh Bridges
2. 11KV construction power Transformer
3. Fabrication works of Cement silo bin, packing plant bin, fly ash bin and truck loading bin cylindrical part rolling and fit up completed.
4. Fabrication of Cement silo bin under progress
5. Mixing bin
6. Other small and miscellaneous machinery and other structural steel fabrication works.

NOTE:

1. We have not received the list of machineries delivered to the site/Invoices of the machineries. Therefore, the Physical progress captured in above table is based on approximate visual observations of status of machineries/Machinery Fabrication constructed on site during our site inspection and our subsequent discussions held with the engineers with which the site visit was conducted. Thus the above progress is on approximate basis which may vary from 5%-10%.
2. Since the borrower has not provided us the breakup of expenditure in separate heads and in the absence of quantity constructed we have only given the general analysis of status of construction that was observed during site visit. To summarise, the project is working on full swing and satisfactory progress was observed during site visit and the project is anticipated to start the commercial operations by April 2023.

PARTICULARS	DETAILS
Total Estimated Cost allocated in Plant Machinery & Equipment	NA
Total Money outlaid till 30th September 2021	NA
Total Approved by LIE	NA
Observations & Remarks: As per CA certificate dated 24 th November 2021 with UDIN. 21424004AAAAJJ835 the borrower has made an expenditure on the project amounting to Rs.667.93 Crore. However as per the breakup of expenditure mentioned in CA certificate no separate expenditure has been shown towards plant and machinery. Clarification was sought from the borrower regarding the same. Accordingly, borrower has verbally informed that as on date of CA certificate they have not capitalised the amount vis-s-vis building cost and machinery cost respectively. Lender to take note of it.	



PART D

PROJECT CONSULTANTS, CONTRACTORS & SUPPLIERS

The borrower has provided the list of Contractors hired in the project for project site at Hamirpur, Uttar Pradesh and Project site at Panna, Madhya Pradesh. As per the list of contractors provided to us the borrower has signed agreements amounting to Approx. Rs.1066 Crore which includes agreements signed for Hamirpur project amounting to approx. Rs.89 Crore and agreements signed for Panna project amounting to Rs.977 Crore. Details of vendors is as below:

(Amount in Rs. Crore)

AGREEMENTS FOR GRINDING UNIT AT HAMIRPUR, UTTAR PRADESH		
Description	Vendor	Agreement Amount
LOI For environment Clearance for GU at Hamirpur	Environment and technical Research centre, Lucknow	0.09
Preparation of TEFR for Under construction GU At Hamirpur, UP	Holtec consulting Pvt. Ltd.	0.08
Engg. Consultancy	Holtec consulting Pvt. Ltd.	1.55
Raw mill and Cement mill for Hamirpur	Loesche (India Part)	39.38
Raw mill and Cement mill for Hamirpur	Loesche (Foreign Part)	28.91
Boundary wall construction	M/s Vishal Enterprises	1.45
Packing plant for Hamirpur	Beumer	14.91
Engg. Services	Loesche, India	2.94
Grand Total as During 1st LIE Report		89.31

(Amount in Rs. Crore)

AGREEMENTS FOR INTEGRATED UNIT AT PANNA, MADHYA PRADESH		
Description	Vendor	Agreement Amount
Boundary wall construction	Apex Precast	0.74
Topographical Wall Construction	RK Consultants and Contractors	0.24
Consultancy for Water lifting from ken river	Vexl Environ Project private limited	0.43
Master plan , architectural , landscape design and interior design services for panna colony	R+D Studio	0.61
3.15 MVA 33.0.433 KVA Transformer	Voltamp	0.32
Supply of TMT Bar	TATA Steel	1.69
500 KVA DG Set	Sudhir Power limited	0.29
Brick masonry Boundary wall work at panna site	Jay shree mahakal contractor	0.60
Crushing system	L&T	23.64
WHRS	Thermax	99.50
ESP and Bag hOuse	Himenviro	21.25
Crushing system 2 years spare	L&T	0.96



Weigh Bridge 100 MT-4Nos.	Rice lake weighing systems India Limited	0.56
Engg. services	Loesche	4.07
Civil stacker, reclaimers, Pyro, blending and clinker silo, mech. Stacker reclaimers	KEC International limited	97.71
TMT supply-4000MT/PMC Services	KEC International limited	20.64
Mechanical fabrication erection for Pyro	Hajee AP Bava	53.50
PMC services	Hajee AP Bava	1.50
Civil and structural work, WHRS, Cement Mill, packing plant, Cement mill silo and Fly ash silo	Buildwell roject india pvt. Limited	29.99
Site grading and levelling work at panna	Karni Construction	2.27
Civil consultancy order	SecMec	2.75
Road and Drainage work	Karni construction	12.83
Mech. & E&I Consultancy	Holtec	6.15
Civil work for workshop, Project office and Weighbridge	Shree ram associates	2.53
Piling works	Parul foundation	2.66
Pre-Cast Boundary wall work at panna site	Tirupati Cemnt articles	0.89
Cooler for Pyro	IKN engineering India pvt. Ltd.	28.95
Raw mill and pyro	Thyssen	143.81
Raw mill and cement mill for Panna	loesche (India Part)	73.13
Raw mill and cement mill for Panna	loesche (Foreign Part)	25.97
Packing plant for Panna	Beumer	21.99
Pre cast boundary wall work at panna site	RKB Enterprise	0.81
Precast boundary wall	Maharishi parashar Buildtech LLP	0.44
Precast boundary wall	Mohira precast Narsingpur	0.45
stacker and reclaimers	Takraf	34.55
Precast boundary wall	Tiranag precast	0.34
Construction cable	Havells india Limited	0.57
Construction of guest house and hostel block	M/s Asiatic	4.59
Civil piling work	M/s KEC	97.71
Mineral exploration in Kakra block	M/s GDS India	1.97
Procurement of steel	SAIL Jabalpur	15.22
Boundary wall construction	Amit singh Construction Borrower	0.50
BLS type ambulance	CK Motor	0.18
Water lifting arrangement from ken river	M/s aanjana pump services	3.15
hiring of hydraulic drilling rig	M/s National infra projects	0.27
Hiring of 2nd Hydraulic drilling rig	M/s National infra projects	0.27
Supply of 28mm TMT	JSPL	2.64
Supply of MS Plate	Shakti steel	0.79



Oxygen/Nitrogen plant capacity 80 Cu. M	Sanghi organisation, Mumbai	1.02
Rain protection cover	M/s ARDEE engineering	40.00
Service contract for steel procurement	Shree ganpatlal omkarlal agarwal and borrower	1.95
Supply of Dry Fly Ash	Ramesh chand grover	0.43
Civil structural work-Plant buildings	M.s kamal Builders	15.25
Civil structural work-Crusher section	M/s Karni	9.23
Bought out items	Beumer	8.31
Bought out items	Mahindra tsubaki	5.65
Bought out items	Tsubaki	2.32
Bought out items	Beumer Germany	4.83
132 KV Transmission line	Suresh techno (India) LLP	21.00
Turbine for WHRS	Siemens	12.90
Steel supply	SAIL Indore	3.37
Site grading and levelling works	M/s Amit singh construction	0.70
Construction of Service road	M/s Amit singh construction	0.43
Supply and installation for pre-fabricated security barrack	M/s tinny Craft	0.63
Security services	SIS	1.98
Grand Total as During 1st LIE Report		976.60

Note: The above information has been incorporated on the basis of details provided by the borrower. However, due to confidentiality factor cited by the borrower, we have not received PO/ Quotations of the above listed vendors and have relied on the duly certified information provided by the borrower only. We have also physically verified some major contracts signed by them at borrower's registered office located in Kanpur on 8th December 2021.



PART E

PROJECT COST & MEANS OF FINANCE

- 1. TOTAL PROJECT COST:** Jaykaycem (Central) Limited has estimated the Total Project Cost amounting to Rs.2970.29 Crore which has been proposed to be funded in DER of 1.30 i.e. approx. 43% Equity and 57% Debt. Details of Rs.2970.29 Crore is as below:

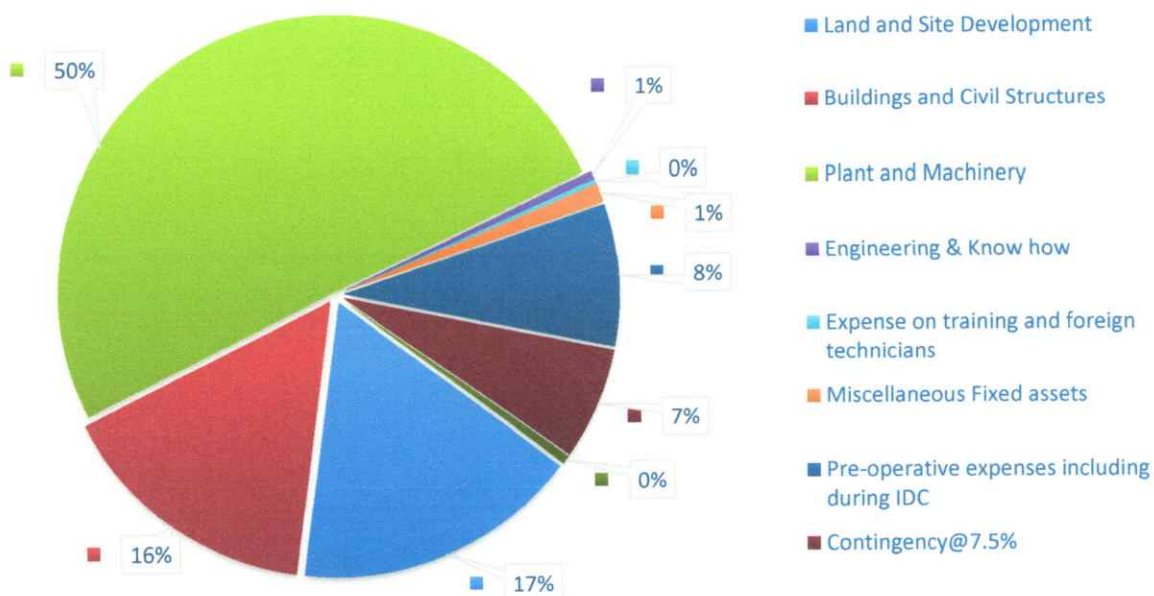
(Amount in Rs. Crore)

Sr. No.	Particulars	Integrated Unit	Grinding Unit	Common expenses	Amount
1.	Land and Site Development	474.95	22.70	-	497.65
2.	Buildings and Civil Structures	378.63	82.05	-	460.68
3.	Plant and Machinery	1285.24	211.63	-	1496.87
4.	Engineering & Know how	11.00	4.00	-	15.00
5.	Expense on training and foreign technicians	7.50	0.50	-	8.00
6.	Miscellaneous Fixed assets	30.17	2.10	-	32.27
7.	Pre-operative expenses including during IDC	-	-	247.78	247.78
8.	Contingency@7.5%	-	-	197.10	197.10
9.	Margin money for working capital	-	-	14.94	14.94
	Total Project Cost	2187.50	322.98	459.82	2970.29

Observations & Comments:

1. The basis of the above estimated cost of Project is as per the estimates provided by the Jaykaycem (Central) Limited and TEFR prepared by HOLTEC Consultancy.
2. Details of Project cost are covered in PART C of this report.
3. Details of Land Purchased is not provided by the borrower.

COST OF PROJECT (Rs. 2970.29 Crore)



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ASSOCIATES

VALUERS & TECHNO

ENGINEERING CONSULTANTS (P) LTD.

2. CURRENT STATUS & TOTAL EXPENDITURE INCURRED TILL DATE: Details of the expenditure in the Table below is recorded for the expenditure incurred up to 30th September 2021.

SR. NO.	PARTICULARS	TOTAL ESTIMATED COST	INCURRED TILL 30.09.2021	CURRENT STATUS OF WORK AND REMARKS
		(All figures in cr.)		
1.	Land & Site Development	Allocated Amount	497.65	The borrower has estimated an expenditure amounting to Rs.497.65 Crore towards Land and site development. As per CA certificate dated 24 th November 2021 with UDIN. 21424004AAAAJJ1835 the borrower has made an expenditure amounting to Rs.208.49 Crore towards land and site development. Details of expenditure were sought from the borrower. However the same is awaited because of which we are unable to analyse the cost incurred towards Land and have relied on CA certificate provided by the borrower for the expenditure incurred towards land and site development.
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	208.49	
		Expenditure approved under his head	NA	
2.	Building & Civil Structures	Allocated Amount	460.68	The borrower has estimated an expenditure amounting to Rs.460.68 Crore towards Building and civil structures. However as per the breakup of expenditure mentioned in CA certificate prepared by RK parmathi & Co. Chartered
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	432.34	

		Expenditure approved under his head	NA	accountants dated 24 th November 2021 with UDIN. 21424004AAAAJJ1835, no separate expenditure has been shown towards Building and Civil structures and plant and machineries. Therefore, we have relied on the expenditure given by CA for the expenditure incurred towards Building & civil cost and purchase/Fabrication of machineries.
3.	Plant and Machinery	Allocated Amount	1496.87	The borrower has estimated an expenditure amounting to Rs.1496.87 Crore towards Plant and machinery However as per CA certificate and our subsequent discussion with the borrower the cost incurred towards plant and machinery has been clubbed in Building and civil structures only.
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	NA	
		Expenditure approved under this head	NA	
4.	Engineering and Now How	Allocated Amount	15.00	The borrower has estimated an expenditure amounting to Rs.15.00 Crore towards Engineering know how. As per CA certificate dated 24 th November 2021 the borrower has incurred Rs.27.10 Crore towards engineering know how which also includes expenses towards training and foreign technicians. The same is considered as per CA Certificate only.
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	27.10	
		Expenditure approved under his head	NA	

5.	Expense on training and foreign technicians	Allocated Amount	8.00	The expenditure towards the same is already included in expenses shown towards engineering know how.
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	NA	
		Expenditure approved under his head	NA	
6.	Miscellaneous Fixed assets	Allocated Amount	32.27	The expenditure towards the same is already included in expenses shown towards Building and civil cost..
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	NA	
		Expenditure approved under his head	NA	
7.	Pre-operative expenses including during IDC	Allocated Amount	247.78	The expenditure towards the same is already included in expenses shown towards engineering know how.
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	NA	
		Expenditure approved under his head	NA	
8.	Contingency@ 7.5%	Allocated Amount	197.10	No expenditure has been incurred towards this head.
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	NA	



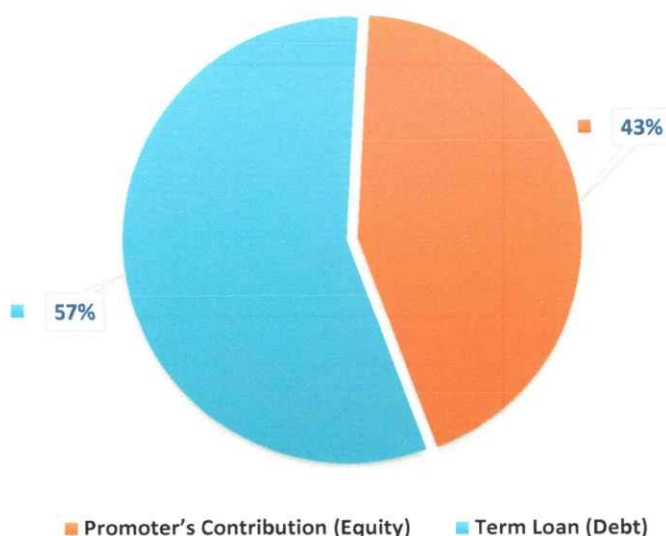
		Expenditure approved under his head	NA	
9.	Margin money for working capital	Allocated Amount	14.94	No expenditure has been incurred towards this head.
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	NA	
		Expenditure approved under his head	NA	
5.	Total	Allocated Amount	2970.29	Details of expenditure, Copies of Invoices/PO's/WO's is not provided to us citing confidentiality factor by the borrower. However, we have physically verified Major agreements signed by the borrower during our visit dated 8 th December 2021. Therefore, we have not analysed the cost incurred on the project till date. We have given a general overview of the project based on expenses shown by chartered accountant in their CA certificate dated 24 th November 2021 with UDIN. 21424004AAAAJJ1835 and construction progress observed during site visit. However, based on construction progress observed during site visit the project is progressing in full swing with satisfactory progress. Sufficient number of labours were observed to be working during site visit and project is anticipated to start the commercial operations by April 2023.
		Expenses incurred up to last LIE report	NA	
		Incurred up to period ending September 2021	667.93	
		Expenditure Approved	NA	

SOURCES OF FINANCE & UTILIZATION OF FUNDS: The Project cost mentioned above has been planned to be covered from following resources:

(Amount in Rs. Crore)

PARTICULARS	ENVISAGED MEANS OF FINANCE
Promoter's Contribution (Equity)	1,290.29
Term Loan (Debt)	1,680.00
TOTAL	2,970.29

MEANS OF FINANCE (Rs.2970.29 Crore)



(Amount in Rs. Crore)

PARTICULARS	PLANNED AMOUNT	AMOUNT INFUSED UP TO 30.09.2021	BALANCE
Promoter's Equity	1,290.29	658.21	632.08
Term Loan from Bank	1,680.00	0.00	1680.00
Project Creditors	---	9.72	(9.72)
TOTAL	2,970.29	667.93	2302.36

Source: As per CA Certificate dated 24th November 2021 with UDIN: 21424004AAAAJJ1835



PART F

STATUTORY & REGULATORY APPROVALS, CLEARANCES & NOC

INTEGRATED UNIT (IU) PROJECT SITE, PANNA, MADHYA PRADESH				
Sr. No.	NAME OF LICENSE/ REGISTRATION	PURPOSE	DATE OF ISSUE	Current Status
	ISSUING AUTHORITY		LICENCE NO.	
1.	Building Plan Approval Letter	Approval of building plans	-	Not yet Obtained
	State PWD		-	
2.	Environment Clearance	Approval as per environment guidelines in the area	14/10/2020	As on date the clearance is valid and will be valid up to 13/10/2027
	Ministry of Environment, Forest and Climate Change		F. No. IA-J-11011/224/2016-IA.II(I)	
3.	Consent to Establish	Approval as per Pollution norms applicable in that area	17/12/2020	As on date the clearance is valid and will be valid up to 30/09/2025
	MP State Pollution control board		CTE-52637	
4.	Provisional Fire NOC	Approval of fire protection technique in the project	-	Not yet Obtained
	State Fire authority		-	
5.	Groundwater Abstraction Clearance	Approval for groundwater abstraction for construction purpose	05/02/2020	As on date the license is active and will be valid up to 30/01/2022.
	Central Groundwater Authority		CGWA/NOC/IND/ORIG/2020/7350	
6.	IEM Certificate	Industrial Entrepreneurs memorandum	05/08/2021	As on date IEM Certificate is valid.
	Ministry of Commerce and Industry		1407/SIA/IMO/2016	
7.	Power Connection	Power connection for construction works	-	Borrower is currently using DG sets for power supply. They have already applied for 35MVA of power supply from Patera Sub station and
	State Power Authority		-	

				transmission lines for the same are in their nascent stage.
--	--	--	--	---

Observations & Comments:

1. Approvals to be obtained by the Jaykaycem (Central) Limited-All approvals including approvals/consents required under local regulations, building codes and approvals required from the Distribution Utility etc. relating to installation of integrated unit are listed above.
2. The borrower has not yet obtained Building plan approval and Provisional Fire NOC.

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rk ASSOCIATES



GRINDING UNIT (GU) PROJECT SITE, HAMIRPUR, UTTAR PRADESH				
Sr. No.	NAME OF LICENSE/ REGISTRATION	PURPOSE	DATE OF ISSUE	CURRENT STATUS
	ISSUING AUTHORITY		LICENCE NO.	
1.	Building Plan Approval Letter	Approval of building plans	-	Not Yet Obtained
	State PWD		-	
3.	Environment Clearance	Approval as per environment guidelines in the area	29/09/2021	As on date the clearance is valid and will expire on 28/07/2028
	Ministry of Environment, Forest and Climate change		202/Parya/SEIAA/6109/2021	
4.	Consent to Establish	Approval as per Pollution norms applicable in that area	01/09/2021	As on date the license is valid and will expire on 29/08/26.
	UP State pollution control board		133698/UPPCB/Banda(UPPCBRO)/CTE/Hamirpur/2021	
5.	Provisional Fire NOC	Approval of fire protection technique in the project	-	Not yet Obtained
	State fire Authority		-	
6.	Groundwater Abstraction Clearance	Approval for groundwater abstraction for construction purpose	Dated 13/11/2021	Application is Under Process
	Central Groundwater Authority		Application no. HMPR1121NIN0024	
8.	IEM Certificate	Industrial Entrepreneurs memorandum	13/01/2021	As on date the IEM Certificate is valid
	Ministry of Commerce and Industry		54/SIA/IMO/2021	
9.	Power Connection	Power connection for construction works	13/04/2021	Borrower has obtained temporary Power connection for 20 KW load.
	State Power Authority		-	
Observations & Comments:				
1. Approvals to be obtained by the Jaykaycem (Central) Limited: All approvals including approvals/consents required under local regulations, building codes and approvals required from the Distribution Utility etc. relating to installation of grinding unit are listed above.				

2. The borrower has not obtained Building plan approval, Provisional Fire NOC.
3. The Borrower has applied for Groundwater abstraction clearance vide application no. HMPR1121NIN0024 Dated 13/11/2021. However, the final approval is pending.



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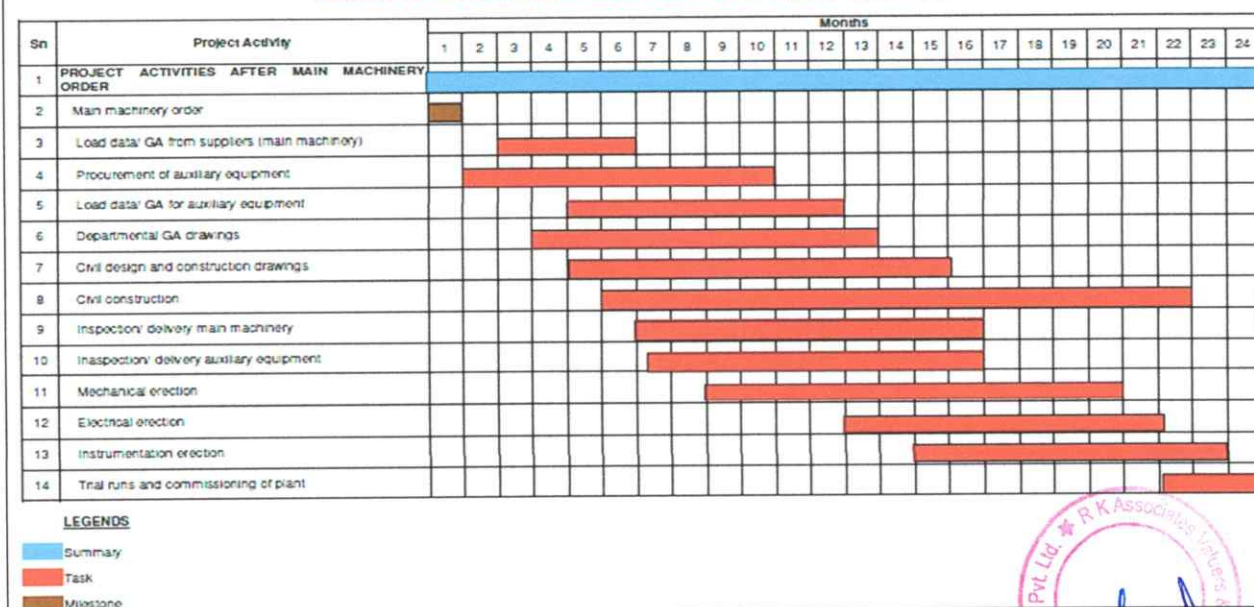
PART G

PROJECT SCHEDULE & CURRENT STATUS

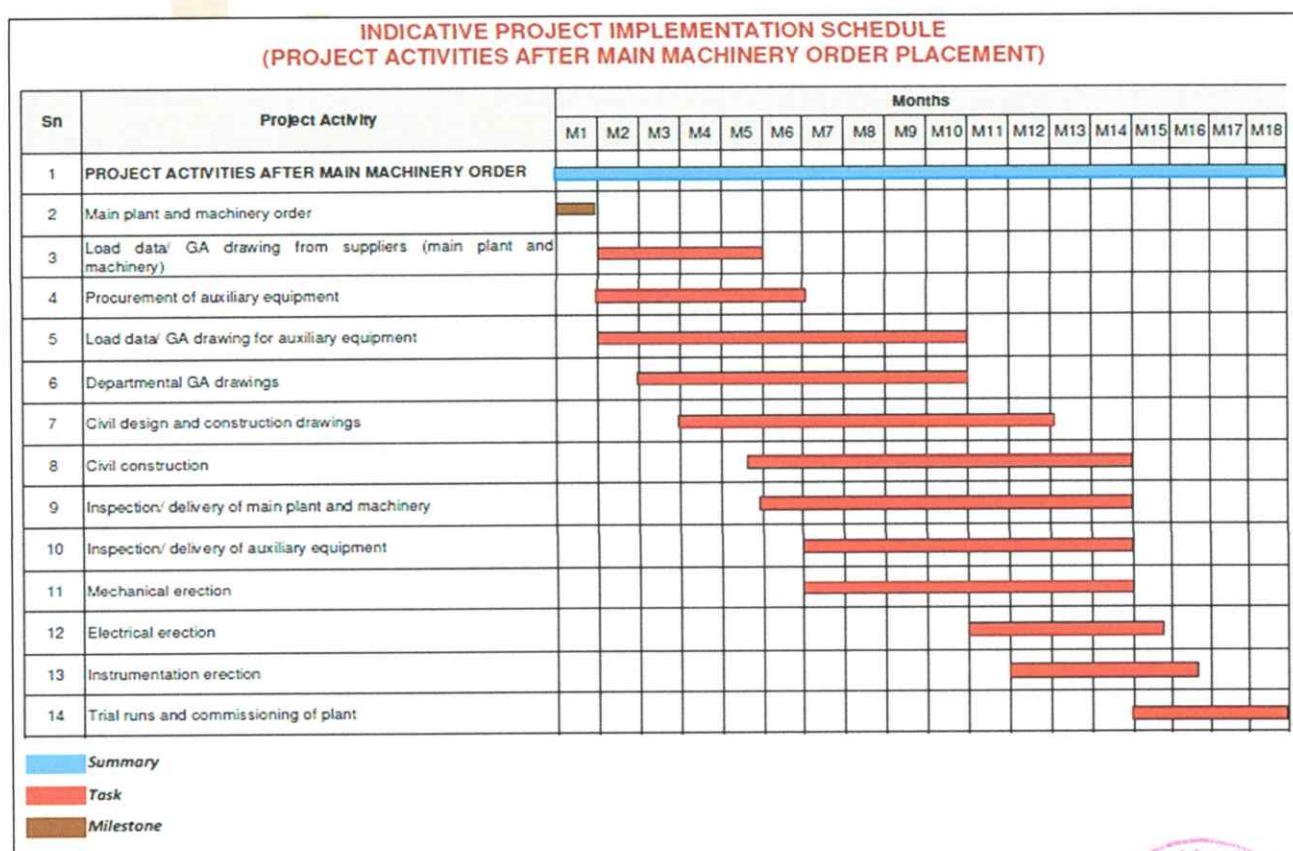
IMPLEMENTATION SCHEDULE OF INTEGRATED UNIT (IU), PANNA, MADHYA PRADESH

Sr. No.	Particulars	Start	End	Current Status
1.	Land and Site Development	Land allotment done		As per the discussion with the borrower, it has been verbally informed that the land allotment has been done. However, we have not received any supporting document for the same. On clarification the borrower informed that the Original title deed shall be deposited with the lender at the time of land mortgage. Bank to obtain the same from the borrower.
2.	Project Statutory Approvals	During Project tenure		Majority of preliminary statutory approvals are in place
3.	Building and Civil works	Sep-21	Feb-23	Building and civil works are currently in progress and are anticipated to complete by December 2022. Building wise site progress is already shown in Part _ of this report and as per visual observation site progress was good and was progressing in full swing.
4.	Order of Plant and Machinery	Apr-21	May-21	As per our discussion with the borrower, they have ordered the major machineries. However, we have not received the copies of purchase orders from the borrower. Bank to obtain the same from the borrower.
5.	Delivery of Machineries	Oct-21	Jul-22	Delivery of machineries has started in the project.
6.	Installation of Machinery	Dec-21	Mar-23	Fabrication of machineries is started in the project.
7.	Trial runs and Commissioning of Plant	Feb-23	Apr-23	As per pace of work observed during site visit the Project is anticipated to start the Commercial operations in April 2023.

**IMPLEMENTATION SCHEDULE - IU
PROJECT ACTIVITIES AFTER MAIN MACHINERY ORDER PLACEMENT**



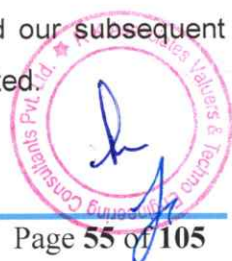
IMPLEMENTATION SCHEDULE OF GRINDING UNIT (GU), HAMIRPUR, UTTAR PRADESH			
Particulars	Start	End	Current Status
Land and Site Development	Land allotment done		As per the discussion with the borrower, it has been verbally informed that the land allotment has been done. However, we have not received any supporting document for the same. On clarification the borrower informed that the Original title deed shall be deposited with the lender at the time of land mortgage. Bank to obtain the same from the borrower.
Project Statutory Approvals	During Project tenure		Majority of statutory approvals are in place
Building and Civil works	Sep-21	May-22	Building and civil works are currently in progress and are anticipated to complete by December 2022.
Order of Plant and Machinery	Apr-21	May-21	As per our discussion with the borrower, they have ordered the major machineries. However, we have not received the copies of purchase orders from the borrower. Bank to obtain the same from the borrower.
Delivery of Machineries	Sep-21	May-22	Delivery of machineries has started in the project.
Installation of Machinery	Oct-21	Jul-22	Installation of machineries is started in the project.
Trial runs and Commissioning of Plant	Feb-23	Apr-23	Project is anticipated to achieve Commercial operations date in April 2023.



PART H

OBSERVATIONS & COMMENTS

1. As per TEFR Prepared by HOLTEC, Jaykaycem (Central) Limited plans to acquire about 480 acres of land for setting up of the Integrated cement plant. Fresh update on status of purchase of land was sought from the borrower. Accordingly, the borrower has informed that they have already acquired the land required for construction of grinding unit. As per present status based on our site inspection, land has been acquired and borrower is in possession of the land where construction works are going on in full swing. However, we have not received any supporting document for the same. Lender are advised to take the same from the borrower.
2. As per TEFR prepared by HOLTEC, JCL has proposed 1060 Acres of land for mining purpose. However, the borrower has already obtained environment clearance from MoEFCC for 1594.34 Hectare of land for Mining purpose. As per HOLTEC report, borrower has planned to initially purchase 621.075 ha. Fresh update on status of purchase of land was sought from the borrower. However, we have not received any supporting document for the same. Lender are advised to take the same from the borrower.
3. As per TEFR JCL was in process of procuring a land patch of about 27 Acre area for the purpose of setting up of grinding unit at the time of TEFR preparation. Similar area admeasuring 26.33 acres is also approved by Ministry of Environment, Forest and Climate Change. Fresh update on status of purchase of land was sought from the borrower. Accordingly, the borrower has informed that they have already acquired the land required for construction of grinding unit. As per present status based on our site inspection, land has been acquired and borrower is in possession of the land where construction is going on in full swing. However, we have not received any supporting document for the same to confirm the actual land area been acquired. Lenders to take the same from the borrower.
4. The estimation of cost considered in the report is as per the TEFR prepared by HOLTEC consultancy. HOLTEC consultancy is very well established consultancy for such type of works and have greatly established themselves in this sphere.
5. The Physical progress captured in the report is based on approximate observations of status of structures constructed on site during our site inspection and our subsequent discussions held with the engineers with which the site visit was conducted.



6. Since the borrower has not provided us the breakup of expenditure in separate heads and in the absence of quantity constructed we have only given the general analysis of status of construction that was observed during site visit. To summarise, the project is working on full swing and satisfactory progress was observed during site visit and the project is anticipated to start the commercial operations by April 2023.
7. The Physical progress of plant and machineries captured above is based on approximate visual observations of status of machineries/Machinery Fabrication constructed on site during our site inspection and our subsequent discussions held with the engineers with which the site visit was conducted. Appropriateness of progress comparison vis-à-vis with the expenditure made and appropriateness of related transactions couldn't be verified at our end because of unavailability of key information/ data/ inputs in terms of break-up of expenditure head wise, unavailability of vendor wise payments made, vendor contracts & agreements, unavailability of RA Bills for quantity estimates citing confidentiality factor by the borrower.
8. As per CA certificate dated 24th November 2021 with UDIN. 21424004AAAAJJ835 the borrower has made an expenditure on the project amounting to Rs.667.93 Crore. However as per the breakup of expenditure mentioned in CA certificate no separate expenditure has been shown towards plant and machinery. Clarification was sought from the borrower regarding the same. Accordingly, borrower has verbally informed that as on date of CA certificate they have not capitalised the amount vis-s-vis building cost and machinery cost respectively. Lender to take note of it.
9. The borrower has provided the list of Contractors hired in the project for project site at Hamirpur, Uttar Pradesh and Project site at Panna, Madhya Pradesh. As per the information available in public domain for the suppliers/ Contractors finalised by the borrower, they are well reputed and are having good experience in the works for which they have been finalised.
10. Details of expenditure, Copies of Invoices/PO's/WO's is not provided to us by the borrower citing confidentiality factor. Therefore, we have not analysed the cost incurred on the project till date and have given a general overview of the project based on expense shown by chartered accountant in their CA certificate dated 24th November 2021 with UDIN. 21424004AAAAJJ1835. However, based on construction progress observed during site visit the project is progressing in full swing with satisfactory progress. Sufficient number of



labours were also observed to be working during site visit and the project is anticipated to start the commercial operations by April 2023. We have physically verified some major contracts signed by the borrower at borrower's registered office located in Kanpur on 8th December 2021.

11. This is the 1st LIE Report of the project and as per CA certificate showing expenditure in the project up to 30th September 2021 no disbursement has been released by the lenders till 30th September 2021.
12. The borrower has not obtained Building plan approval and Provisional Fire NOC for Integrated as well as Grinding units of the project. However other important approvals that are required to start construction works in the project are in place.
13. The Borrower has applied for Groundwater abstraction clearance for grinding unit vide application no. HMPR1121NIN0024 Dated 13/11/2021. However, the final approval is pending. As per our discussion with the borrower the same is expected to be granted by the end of January 2022.
14. The borrower has to submit 6-month compliance reports as per Environment clearance. Lender to ensure that the same is being regularly submitted by the borrower.
15. As per pace of work observed during site visit the Project is anticipated to start the Commercial operations in April 2023.



PART I

DISCLAIMER

1. No employee or member of R.K Associates has any direct/ indirect interest in the Project.
2. This report is prepared based on the copies of the documents/ information which the Bank/ Borrower has provided to us out of the standard checklist of documents sought from them and further based on our assumptions and limiting conditions. The client/owner and its management/representatives warranted to us that the information they supplied was complete, accurate and true and correct to the best of their knowledge. All such information provided to us has been relied upon in good faith and we have assumed that it is true and correct in all respect. I/We shall not be liable for any loss, damages, cost or expenses arising from fraudulent acts, misrepresentations, or wilful default on part of the owner, borrower, its directors, employee, representative or agents. Verification or cross checking of the documents provided to us from the originals or from any Govt. departments/ Record of Registrar has not been done at our end since this is beyond the scope of our work. If at any time in future, it is found or came to our knowledge that misrepresentation of facts or incomplete or distorted information has been provided to us then this report shall automatically become null & void.
3. Legal aspects for eg. investigation of title, ownership rights, lien, charge, mortgage, lease, sanctioned maps, verification of documents, etc. have not been done at our end and same has to be taken care by legal expert/ Advocate. It is assumed that the concerned Lender/ Financial Institution has satisfied them with the authenticity of the documents, information given to us and for which the legal verification has been already taken and cleared by the competent Advocate before requesting for this report. I/ We assume no responsibility for the legal matters including, but not limited to, legal or title concerns.
4. This report is a general analysis of the project based on the scope mentioned in the report. This is not an Audit report, Design document, DPR or Techno feasibility study. All the information gathered is based on the facts seen on the site during survey, verbal discussion & documentary evidence provided by the client and is believed that information given by the borrower is true best of their knowledge.
5. All observations mentioned in the report is only based on the visual observation and the documents/ data/ information provided by the client. No mechanical/ technical tests, measurements or any design review have been performed or carried out from our side during Project assessment.
6. Bank/FII should ONLY take this report as an Advisory document from the Financial/ Chartered Engineering firm and its specifically advised to the creditor to cross verify the original documents for the facts mentioned in the report which can be availed from the borrowing borrower directly.

7. In case of any default in loans or the credit facility extended to the borrowing borrower, R.K Associates shall not be held responsible for whatsoever reason may be and any request for seeking any explanation from the employee/s of R.K Associates will not be entertained at any instance or situation.
8. The documents, information, data provided to us during the course of this assessment by the client is reviewed only upto the extent required in relation to the scope of the work. No document has been reviewed beyond the scope of the work.
9. This report only contains general assessment & opinion as per the scope of work evaluated as per the information given in the copy of documents, information, data provided to us and/ and confirmed by the owner/ owner representative to us at site which has been relied upon in good faith. It doesn't contain any other recommendations of any sort including but not limited to express of any opinion on the suitability or otherwise of entering into any transaction with the borrower.
10. We have relied on data from third party, external sources & information available on public domain also to conclude this report. These sources are believed to be reliable and therefore, we assume no liability for the truth or accuracy of any data, opinions or estimates furnished by others that have been used in this analysis. Where we have relied on data, opinions or estimates from external sources, reasonable care has been taken to ensure that such data has been correctly extracted from those sources and /or reproduced in its proper form and context, however still we can't vouch its authenticity, correctness or accuracy.
11. This Report is prepared by our competent technical team which includes Engineers and financial experts & analysts.
12. This is just an opinion report and doesn't hold any binding on anyone. It is requested from the concerned Financial Institution which is using this report for taking financial decision on the project that they should consider all the different associated relevant & related factors also before taking any business decision based on the content of this report.
13. All Pages of the report including annexures are signed and stamped from our office. In case any paper in the report is without stamp & signature then this should not be considered a valid paper issued from this office.
14. Though adequate care has been taken while preparing this report as per its scope, but still we can't rule out typing, human errors, over sightedness of any information or any other mistakes. Therefore, the concerned organization is advised to satisfy themselves that the report is complete & satisfactory in all respect. Intimation regarding any discrepancy shall be brought into our notice immediately. If no intimation is received within 15 (Fifteen) days in writing from the date of issuance of the report, to rectify these timely, then it shall be considered that the

report is complete in all respect and has been accepted by the client upto their satisfaction & use and further to which R.K Associates shall not be held responsible in any manner.

15. Defect Liability Period is **15 DAYS**. We request the concerned authorized reader of this report to check the contents, data and calculations in the report within this period and intimate us in writing if any corrections are required or in case of any other concern with the contents or opinion mentioned in the report. Corrections only related to typographical, calculation, spelling mistakes, incorrect data/ figures/ statement will be entertained within the defect liability period. Any new changes for any additional information in already approved report will be regarded as additional work for which additional fees may be charged. No request for any illegitimate change in regard to any facts & figures will be entertained.
16. R.K Associates encourages its customers to give feedback or inform concerns over its services through proper channel at valuers@rkassociates.org in writing within 15 days of report delivery. After this period no concern/ complaint/ proceedings in connection with the Financial Feasibility Study Services will be entertained due to possible change in situation and condition of the subject Project.
17. Our Data retention policy is of **ONE YEAR**. After this period, we remove all the concerned records related to the assignment from our repository. No clarification or query can be answered after this period due to unavailability of the data.
18. This Financial Feasibility Study report is governed by our (1) Internal Policies, Processes & Standard Operating Procedures, (2) Information/ Data/ Inputs given to us by the client and (3) Information/ Data/ Facts given to us by our field/ office technical team. Management of R.K Associates never gives acceptance to any unethical or unprofessional practice which may affect fair, correct & impartial assessment and which is against any prevailing law. In case of any indication of any negligence, default, incorrect, misleading, misrepresentation or distortion of facts in the report then it is the responsibility of the user of this report to immediately or at least within the defect liability period bring all such act into notice of R.K Associates management so that corrective measures can be taken instantly.
19. R.K Associates never releases any report doing alterations or modifications from pen. In case any information/ figure of this report is found altered with pen then this report will automatically become null & void.

Place: Noida

Date: 18th January 2022

Note: This report contains 105 Pages

**For R.K. Associates Valuers and Techno
Engineering Consultants Pvt. Ltd.**

FOR INTERNAL USE

SURVEYED BY: Er. Tejas Bharadwaj

PREPARED BY: PE Team



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rk ASSOCIATES



ENCLOSURE 1: CA CERTIFICATE DATED 24TH NOVEMBER 2021

R. K. PARMARTHI & CO.
CHARTERED ACCOUNTANTS



518, "Kalpana Plaza", Birhana Road, Kanpur - 208 001
(M) 9839085297, 9415128481
E-mail: parmarthidurgesh@gmail.com
parmarthidurgesh@yahoo.co.in

The Board of Directors
Jaykaycem (Central) Limited
Kamla Tower
Kanpur

We, M/s. R.K. Parmarthi & Co., Chartered Accountants have been requested by M/s. Jaykaycem (Central) Ltd. ("Company") to certify the actual cost incurred till 30th Sept, 2021 in respect of 4.0 Mn.tpa. Grey Cement Project at Panna and Hamirpur ("Project").

The Company has informed us that the aforesaid certificate is required for the purpose of first disbursement against Project Consortium Loan of Rs. 1680 Crores for which the Common Loan Agreement (CLA) was executed on 18th Nov, 2021.

Based on our examination of books of accounts of the Company and other records produced before us, we hereby certifying the actual cost (including GST and Custom Duty) incurred till 30th Sept, 2021 on the Project and Sources of Funds as under:

Actual Cost incurred on the Project:

(Rs. in Crores)		
Item	Expenses incurred	Estimated Project Cost as per Holtec Report
Land and Site Development	208.49	497.65
Plant & Machinery / Building & Civil Structures / Miscellaneous Fixed Assets	432.34	1989.33
Pre-Operative Expenses / Engineering & Knowhow / Training & Foreign Technician Expenses.	27.10	140.46
Interest during Construction Period	-	130.31
Contingency	-	197.10
Margin Money for Working Capital	-	14.94
Total Cost	667.93	2970.29

Sources of Funds:

Particulars	Amount (Rs. in crores)
Promoters' Contribution by JK Cement Ltd. (please see note below)	658.21
Project Creditors	9.72
Total	667.93



R. K. PARMARTHI & CO.
CHARTERED ACCOUNTANTS



518, "Kalpana Plaza", Birhana Road, Kanpur - 208 001
(M) 9839085297, 9415128481
E-mail: parmarthidurgesh@gmail.com
parmarthidurgesh@yahoo.co.in

Note: JK Cement Ltd. has infused amount aggregating Rs. 682.59 Crores in Jaykaycem (Central) Ltd. up to 30th Sept, 2021, out of which cash outflow towards expenses was Rs. 658.21 Crores and the balance amount is lying in banks with Jaykaycem (Central) Ltd.

The Company has yet to take disbursement of loan. Hence, calculation of Debt Equity ratio is not applicable.

We further confirm that the aforesaid Promoters' Contribution has been utilized by the Company towards setting up the Project mentioned in Common Loan Agreement dated 18th Nov, 2021.

For **R. K. Parmarthi & Co.**
Chartered Accountants
Firm Regn. No. 001121C
UDIN: 21424004AAAAJJ1835

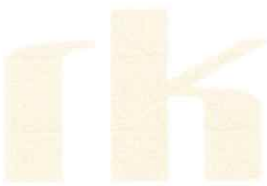

(Arvind Awasthi)
Partner



(Membership No. 424004)
Dated : 24.11.2021

DOCUMENT DETAILS

Verification Date/Time:	19-01-2022 06:11:33
UDIN Generation Date/Time:	24-11-2021 14:43:42
Unique Document Identification Number (UDIN):	21424004AAAAJJ1835
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Document Type:	Certificates
Type of Certificate:	Others
Date of signing of Document:	24-11-2021
Figures/Particulars:	1. Cost of Project: 2970.29 Crores 2. Expenditure Incurred till 30.09.2021: 667.93 Crores 3. Sources of Funds: 667.93 Crores
Document Description:	Certificate for Investment
Status:	Active



[A large, faint, diagonal blue line is drawn across the page, likely a signature or a mark.]

[Handwritten signature in blue ink.]

ENCLOSURE 3: COPIES OF STATUTORY APPROVALS (GRINDING UNIT AT HAMIRPUR)

1/13/2021

DPIIT

भारत सरकार
Government of India
वित्त और उद्योग मंत्रालय
Ministry of Commerce & Industry
आयोजन, वाणिज्य और उद्योग विभाग
Department for Promotion of Industry and Internal Trade
Industrial Entrepreneurs Memorandum Section
आदिता गुप्ता
ACKNOWLEDGEMENT



Authenticity of the document can be verified by scanning the QR code.

Online Ref No. :- IEM271110

दस्तावेज / No. :- 54/SA/IMO/2021

यह एक प्रमाणित/सत्यापित दस्तावेज है। इसे प्रमाणित करने के लिए QR कोड स्कैन करें।

92 12 10 9000

New Delhi, Date: 13/01/2021

The receipt of your memorandum for the manufacture of following is hereby acknowledged:-

Item Code :-	23942
Proposed item :-	MANUFACTURING OF PORTLAND CEMENT, ALUMINOUS CEMENT, SLAG CEMENT AND SIMILAR HYDRAULIC CEMENT
Falling under NIC - broad description :-	MANUFACTURE OF PORTLAND CEMENT, ALUMINOUS CEMENT, SLAG CEMENT AND SIMILAR HYDRAULIC CEMENT
Proposed Capacity :-	2,000,000 TONNES
Existing Capacity :-	--
Total Capacity :-	2,000,000 TONNES

***** No More Items *****

This acknowledgement is subject to the provisions of Press Note No. 6 dated 29 July 1993, Press Note No. 17 dated 28th November 1997 and Press Release dated 17-01-2012 (F.No. 7(7)/2011-IP) regarding the significance implications and legal status of filing of Industrial Entrepreneur Memorandum, Press note no. 17(1997 series) enclosed.

<https://services.dipp.gov.in/lms/certificate?apld=132321>

1/4



OFFICE OF THE EXECUTIVE ENGINEER

E.D.D., D.V.V.N. LTD., HAMIRPUR

EDDH/

Dated/ 13.06.21

SUBJECT Giving supply to the extent of the 30 HP/KW

Mr. Praveen Kumar S/o. Shri Late Shri Baburam

resident of House No. 51/2, Railway Road, Ganeshpur, Reem Kos

located at Hamirpur for the process of L.P.M.

Security Amount Deposited Vide R. No. 155593357 Dt. 25/07/21 Rs. 35000000

S.L. Charges deposited Vide R. No. 155593352 Dt. 25/07/21 Rs. 398551000

SUBDIVISIONAL OFFICER ELECTRICITY DISTRIBUTION SUB DIVISION/
MAUDAHA/RATH/HAMIRPUR

It is to inform you that the above consumer has completed all formalities for

making available 30 HP/KW load to him for the process

L.P.M. you may now take necessary action to construct his

line & giving supply.

He has already deposited the B & L form Motor inspection fee vide challan

No. 155593355 dated 08/01/2021 & has also executed agreement

declaration in his office on 08/01/2021. The work may be completed at your

earliest & the date of completion be reported.

Enclosed of Copy of sanction & Estimate, 3 copy and B & L form.

HP/KW 155593357
Rs. 35000000
S.L. 155593352
Rs. 398551000
Dated 13/06/21

No. 151 EDDH/ Dated

Copy forwarded to the following for information & necessary action to-

1- Sri. Praveen Kumar S/o. Shri Late Shri Baburam

Resident of village House No. 51/2, Railway Road, Ganeshpur, Reem Kos

2- The Electrical Inspector to the Govt. Of U. P. civil Line Banda with a copy of B & L

form & with the original challan of depositing the requisite motor inspection fee.

3- Sri. Ramendra Satish Junior Engineer 33 Kv sub station Ingahata

4- SDC/ JE Hamirpur for Installation

of meter
(AECM) Electricity test lab Hamirpur for
Installation of meters.

Executive Engineer
E. D. D. Hamirpur

Scanned by CamScanner



UTTAR PRADESH POLLUTION CONTROL BOARD

Building, No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

Validity Period :30/08/2021 To 29/08/2026

Ref No. - 133698/UPPCB/Banda(UPPCBRO)/CTE/HAMIRPUR/2021 Dated:- 01/09/2021

To ,

Shri RAMPAL GOYAL

M/s JAYKAYCEM CENTRAL WORKS HAMIRPUR

Village Ingotha, Pargana Sumerpur, District Hamirpur, HAMIRPUR, 210341

HAMIRPUR

Sub : Consent to Establish for New Unit/Expansion/Diversification under the provisions of Water (Prevention and control of pollution) Act, 1974 as amended and Air (Prevention and control of Pollution) Act, 1981 as amended.

Please refer to your Application Form No.- 13072006 dated - 14/08/2021. After examining the application with respect to pollution angle, Consent to Establish (CTE) is granted subject to the compliance of following conditions :

1. Consent to Establish is being issued for following specific details :

A- Site along with geo-coordinates :

B- Main Raw Material :

Main Raw Material Details		
Name of Raw Material	Raw Material Unit Name	Raw Material Quantity
Clinker	Metric Tonnes/Month	15000
Fly Ash	Metric Tonnes/Month	5000
Gypsum	Metric Tonnes/Month	2500
Slag	Metric Tonnes/Month	5000
Limestone	Metric Tonnes/Month	2500

C- Product with capacity :

Product Detail	
Name of Product	Product Quantity
Cement PPC (MT/Month)	150000
Cement OPC (MT/Month)	16600
Cement PSC (MT/Month)	16600
Cement Composite (MT/Month)	16600

D- By-Product if any with capacity :

By Product Detail			
Name of By Product	Unit Name	Licence Product Capacity	Install Product Capacity
Nil	Metric Tonnes/Month	00	00

2. Water Requirement (in KLD) and its Source :



Chief Environmental Officer (circle-2)

Dated:- 01/09/2021

Copy To -

Regional Officer, UPPCB, Banda with direction to send the compliance report of CTE conditions on quarterly basis.

Ajay Kumar
Sharma

Digitally signed by Ajay Kumar
Sharma
Date: 2021.09.01 15:24:55
+05'30'
Chief Environmental Officer (circle-2)

State Level Environment Impact Assessment Authority, Uttar Pradesh

Directorate of Environment, U.P.

Vineet Khaddi, Gomti Nagar, Lucknow - 226 011

Phone - 91-522-2300 541, Fax - 91-522-2300 543

E-mail - doep@seiaaup.com

Website - www.seiaaup.com

To,

Shri Rampal Goyal,
G.M. Environment Projects,
M/s Jaykaycem (Central) Works,
Kamla Tower, Kanpur Panna,
Madhya Pradesh, U.P- 488441

Ref. No.2021...../Parya/SEIAA/6109/2021

Date: 29 September, 2021

Sub: Environmental Clearance for Proposed Cement (Clinker) Grinding Unit Capacity - 2.0 Million TPA (7200 TPD PPC/OPC/PSC/Composite Cement) and D.G. Sets (1250 kVA & 125 kVA) at Village - Ingotha, Pargana - Sumerpur, District - Hamirpur (UP), M/s Jaykaycem (Central) Works (A Unit of Jaykaycem (Central) Ltd.

Reference- MoEFCC Proposal no- SIA/UP/MIS/59622/2021 & SEIAA, U.P File no- 6109

Dear Sir,

This is with reference to your application/letter dated 04-01-2021, 12-02-2021, 28-07-2021, 05-08-2021, 25-08-2021 on above mentioned subject. The matter was considered by SEAC in meeting held on 24-08-2021 and SEIAA in meeting held on 03-09-2021.

A presentation was made by the project proponent along with their consultant M/s Environmental and Technical Research Centre to SEAC on 24-08-2021

Project Details Informed by the Project Proponent and their Consultant

The project proponent, through the documents and presentation gave following details about their project -

1. The environmental clearance is sought for Proposed Cement (Clinker) Grinding Unit Capacity - 2.0 Million TPA (7200 TPD PPC/OPC/PSC/Composite Cement) and D.G. Sets (1250 kVA & 125 kVA) at Village - Ingotha, Pargana - Sumerpur, District - Hamirpur (UP), M/s Jaykaycem (Central) Works (A Unit of Jaykaycem (Central) Ltd.
2. Terms of reference in the matter were issued by SEAC, UP, vide Ref no 08/Parya/SEIAA/6109/2020 dated 6th April 2021.
3. Public hearing was organized on 06th July 2021. Final EIA report submitted by the project proponent on 28th July 2021.
4. Project Site details:

S. No.	Particulars	Details
1	Nature and Size of Project	Products Cement (Million TPA) Proposed Capacity 2.00 (7200 TPD)



Page 1 of 9

Ec For Proposed Proposed Cement (Clinker) Grinding Unit Capacity : 2.0 Million TPA (7200 TPD PPC/QPC/PSC/Composite Cement) and D.G. Sets (1250 kVA & 125 kVA) at Village – Ingotha, Pargana – Sumerpur, District – Hamirpur (U.P). M/s Jaykaycem (Central) Works (A Unit of Jaykaycem (Central) Ltd.

would not be effective and would automatically be stand cancelled.

The project proponent has to ensure that the proposed site is not a part of any no-development zone as required/prescribed/identified under law. In case of the violation this permission shall automatically deemed to be cancelled. Also, in the event of any dispute on ownership or land use of the proposed site, this Clearance shall automatically deemed to be cancelled.

Further project proponent has to submit the regular 6 monthly compliance report regarding general & specific conditions as specified in the E.C. letter and comply the provision of EIA notification 2006 (as Amended).

These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006 including the amendments and rules made there after.



(Ajay Kumar Sharma)
Member Secretary, SEIAA

No...../Parya/SEIAA/6109/2019 dated: As above

Copy, through email, for information and necessary action to –

1. The Principal Secretary, Department of Environment, Forest and Climate Change, Government of Uttar Pradesh, Lucknow (email – soenvups@rediffmail.com)
2. Joint Secretary, Ministry of Environment, Forest and Climate Change, Government of India, 3rd Floor, Prithvi-Block, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003 (email – sudheer.ch@gov.in)
3. Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow – 226020 (email – rocz.lko-mef@nic.in)
4. District Magistrate Hamirpur.
5. Member Secretary, Uttar Pradesh Pollution Control Board, TC-12V, Paryavaran Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow-226010 (email – ms@uppcb.com)
6. Copy to Web Master for uploading on PARIVESH Portal.
7. Copy for Guard File.

(Ajay Kumar Sharma)
Member Secretary, SEIAA

Page 9 of 9

12/16/21, 6:50 PM



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti
Government of Uttar Pradesh

Form 8 (C)

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF NEW / EXISTING WELL FOR INDUSTRIAL/
COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER**

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO:

VALID FROM --- TO ---

Name of the Applicant	RAMPAL GOYAL		
Address of the Applicant	Village Ingolha, Pargana Sumerpur, District Hamirpur		
Company Name	JAYKAYCEM (CENTRAL) WORKS	Company Address	Village Ingolha Pargana Sumerpur Dist. Hamirpur up
Serial No. of Application Form	HMPR1121NIN0024	Date of Submission	13/11/2021
Specimen Signature of the User:			
Location particulars:			
District	Hamirpur	Block	Sumerpur
Plot No.	Village Ingolha Pargana		
Municipality/Corporation	No	Ward No.	N/A
Holding No.			N/A
Rate of Withdrawal (m ³ /hr.)	20.00	Date of Energization (In Case of Electric Pump)	01/07/2022
Particular of the Proposed Well and Pumping Device			
Type of the Well	Tube Well/Boring	Purpose of the Well	Industrial
Assembly Size (For Tube Well)	100.00	Approx. Strainer Length (For Tube Well)	0.00
Diameter (For Dug Well)	0.00	Type of Pump to be Used:	Submersible
H.P. of the Pump:	7.50	Operational Device	Electric Motor
Maximum Allowable Rate of Withdrawal (m ³ /hr.):	20.00	Maximum Allowable Running Hours Per Day:	5.00
Maximum Allowable Annual Extraction of Ground Water:	36500		

This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (2) for extraction of ground water at a rate not exceeding that as shown at Sl. (3), for Running Hours per day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

[Handwritten Signature]

ENCLOSURE 3: COPIES OF STATUTORY APPROVALS (INTEGRATED UNIT AT HAMIRPUR)

Contact Address in State
General Manager
MP Trade and Investment
Facilitation Corp. Ltd.
CEDMAP Bhawan, 16-A
Area Hills, Bhopal
462011
Telephone : 2559978
Fax : 550121

भारत सरकार
Government of India
वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
औद्योगिक सहायता सचिवालय
Secretariat for Industrial Assistance

Page No : 1

औद्योगिक उद्यमी ज्ञापन अनुभाग
Industrial Entrepreneurs Memorandum Section
1407/SIA/IMO/2016 Online Ref No IY3284

क्रमांक

प्राप्ति सूचना

नई दिल्ली, दिनांक

No.

ACKNOWLEDGEMENT

New Delhi 05/08/16

गुप्तद्वारा निम्नलिखित का निम्नलिखित करने संबंधी कृपया ज्ञापन प्राप्त करने का अनुरोध है:

File No Code your memorandum for the manufacture of Portland Cement

Proposed Item: PORTLAND CEMENT
of Manufacture

23942 falling under NIC - broad description
MANUFACTURE OF PORTLAND CEMENT, ALUMINOUS CEMENT, SLAG
CEMENT AND SIMILAR HYDRAULIC CEMENT
Proposed Capacity : 6000000.00 TONNES

Proposed Item: CLINKER
of Manufacture

23941 falling under NIC - broad description
MANUFACTURE OF CLINKERS AND CEMENT
Proposed Capacity : 5280000.00 TONNES

***** No More Items *****

This acknowledgement is subject to the provisions of Press Note No 6 dated 29th July 1993, Press Note No 17 dated 28th November 1997 and Press Release dt 17-01-2012 (F.No.7(7)/2011-IP) regarding the significance implications and legal status of filing of Industrial Entrepreneur Memorandum

M/S JAYKAYCEM CENTRAL LTD.,

HARDUWA KEN. PURAINA
AMANGANJ,

KAMLA TOWER,
KANPUR,
UTTAR PRADESH - 208001

PANNA

MADHYA PRADESH

जयपुर जिला

उत्तर प्रदेश

उत्तर प्रदेश

पत्राचार

संशोधन/सामग्री S1102514

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MADHYA PRADESH POWER TRANSMISSION CO. LTD.
(A wholly owned Govt. of Madhya Pradesh Undertaking)
CIN: U40109MP2001SGC014880
Block No.3 Shakti Bhawan, Rampur, Jabalpur (M.P.) 482008
Phone : (0761) Phone No. 0761 - 2702132, 2702160 Fax No. 0761-2660908 e-mail: ce.pnd@mptransco.nic.in

No. 04-02/B-3543/P&D-TLD/

1103

Date: 5/5/2021

To

The Chief Engineer(SR),
M.P. PoorvKshetraVidyutVitanCo.Ltd.,
Sagar (MP)

Sub: Construction of 132kV DCSS line from 132kV S/s Patera for power supply of contract demand of 35MVA to upcoming Greenfield Cement Plant Project of M/s Jaykaycem (Central) Ltd. at Village-Harduwaken, Tahsil-Amanganj, Dist.-Panna under consumer contribution work.

Ref: i>Your Letter No. 9300 dated 22.03.2021.
ii. The letter No. JKCEM/2021/05 dated 18.04.2021 of M/s Jaykaycem(C) Ltd.
iii. This office letter No.04-02/P&D-TLD/1065 dated 20.04.2021 (copy enclosed).
iv. This office letter No. 04-02/B-3543/P&D-TLD/1093 dated 04.05.2021.
v. The letter No. JKCEM/2021/10 dated 30.04.2021 of M/s Jaykaycem(C) Ltd.

Reference may please be made to the communications cited under reference regarding grant of new permanent connection for contract demand of 35MVA on 132kV to M/s Jaykaycem (Central) Ltd. for their upcoming Greenfield Cement Plant Project at Village-Harduwaken, Tahsil-Amanganj, Dist.-Panna. Subsequently after obtaining furnishing concurrence on the terms & conditions of MPPTCL for connectivity from 132kV S/s Patera, M/s Jaykaycem (Central) Ltd. have deposited 1st installment of ₹1500.00 lakh on dated 27.04.2021 through RTGS. Accordingly, vide letter dated 03.05.21, request has been made for informing M/s Jaykaycem (Central) Ltd. to deposit balance amount of ₹ 1729.89 lakh towards system strengthening work with MPPTCL. The system strengthening work is to be done by MPPTCL at the cost M/s Jaykaycem (Central) Ltd. The balance amount is due for payment by M/s Jaykaycem (Central) Ltd.

2. Regarding 132kV DCSS line from 132kV S/s Patera to upcoming Plant, it is to mention that the line (including survey) is to be constructed by M/s Jaykaycem (Central) Ltd. at their own resources & cost under supervision of MPPTCL. Detailed survey since has been completed by M/s Jaykaycem (Central) Ltd. and the profile has been submitted by them for approval.

4. The process of verification & approval is suffering due to restriction on staff during office hour due to national calamity/disaster caused by Covid-19 coronavirus pandemic. The process of profile verification & approval may take considerable time in verification. Therefore, in view of possible delay in approval of profile & issuing demand of supervision charges etc., M/s Jaykaycem (Central) Ltd. vide letter No. 10 dated 30.04.2021 (copy enclosed) have requested to frame estimate tentatively based on detailed survey conducted by them and requested to issue demand of supervision charges etc. M/s Jaykaycem (Central) Ltd. have also conveyed their concurrence that differential cost, if any, arises due to differences in tentative and final estimated cost shall be borne by them.

5. The demand associated with construction of transmission lines is issued only approval of ground profile and confirming approval of new connection/sanction of

Regd.Off: Shakti Bhawan, Rampur, Jabalpur (M.P.) 482008 Tel: (0761) 2661234 Fax: (0761) 2664141, e-mail: ce.pnd@mptransco.nic.in, website:

shall be permitted to initiate any activities associated construction of above 132kV DCSS line only confirming receipt of above amount ₹ 545.50 lakh towards above 132kV DCSS line and differential amount ₹1729.89 lakh towards system strengthening work from M/s Jaakaycem (Central) Ltd.

Encl:-As above.

CHIEF ENGINEER (PLG. & DESIGN)
MPPTCL: JABALPUR

Copy to:-

1. The Executive Director (CRA), MPPTCL, Jabalpur.
2. The Chief Engineer (Procurement), MPPTCL, Jabalpur.
3. The Chief Engineer (EHT-Const), MPPTCL, Jabalpur.
4. The Chief Engineer (T&C), MPPTCL, Jabalpur.
5. The Chief Engineer (EHT-M&I), MPPTCL, Jabalpur.
6. The Addl. Chief Engineer (Trans-East Zone), MPPTCL, Jabalpur.
7. The Chief Financial Officer, MPPTCL, Jabalpur.
- It is requested to issue letter of confirmation on receipt of the amount in the account so that further action in the matter could be initiated by this office.
8. The Superintending Engineer (EHT-Const.) Circle, MPPTCL, Gwalior.
9. The Superintending Engineer (PSS) of this office.
10. The Executive Engineer (EHT-Const.) Division, MPPTCL, Sagar.
11. The Executive Engineer (SSD)/(STU) of this office.
12. The Regional Account Officer, MPPTCL, Bhopal.
13. Demand note file.
14. The Vice President (Project & Commercial), M/s Jaykaycem (Central) Ltd., Kamala Tower, Kanpur- 208001; email: prabhat.srivastava@jkcement.com
- For advance intimation with request for expediting the matter with CE(SR), MPPKVCL, Sagar and deposit the requisite amount expeditiously with MPPTCL

Regd. Off: Shakti Bhawan, Rampur, Jabalpur (M.P.) 482005 Tel: (0761) 2661234 Fax: (0761) 2664141, e-mail: md@mptransco.nic.in, www.mptransco.nic.in



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 46 MP
Tel: 0755-2466191, Fax-0755-2463742

RED-LARGE

CTE-Fresh
Validity [A/W] : 30.09.2025

CONSENT NO: ***

PCB ID:
134815

Outward No:101611,17/12/2020

Consent No:CTE-52637

To,

The Occupier.
M/s. Jaykaycem (Central) Limited.
Plot No. Various khasra at Village-Devra, Harduaken, Puraina, Sotipura, Maddayan,
About 11 KiloMeter from Amanganj on Amanganj-Hata Road.
Tehsil-Amanganj (Old Pawai),
Distt. Panna-488441 (M.P.).

Subject: Grant of Consent to Establish under section 25 of the Water (Prevention & Control of Pollution) Act,1974, under section 21 of the Air (Prevention & Control of Pollution) Act,1981 & under Hazardous & other wastes (Management & Transboundary Movement) Rules, 2016.

Ref: Your Application Receipt No. 1019153 Dt. 22/11/2020 and last communication received on Dt. 01/12/2020

Without prejudice to the powers of this Board, under section 25 of the Water (Prevention & Control of Pollution) Act,1974, under section 21 of the Air (Prevention & Control of Pollution) Act,1981, under Hazardous & other wastes (Management & Transboundary Movement) Rules, 2016 and without reducing your responsibilities under the said Acts/Rules in any way, this is to inform you that Consent to Establish-Fresh is being granted with validity up to 30.09.2025 for setting up of an industrial plant/activities (proposed integrated Clinker/Cement manufacturing unit) for at Plot No. Various khasra at Village-Devra, Harduaken, Puraina, Sotipura, Maddayan, About 11 KiloMeter from Amanganj on Amanganj-Hata Road, Tehsil-Amanganj (Old Pawai), Distt. Panna-488441 (M.P.)

SUBJECT TO THE FOLLOWING CONDITIONS :-

a. Location: Plot No. Various khasra at Village-Devra, Harduaken, Puraina, Sotipura, Maddayan, About 11 KiloMeter from Amanganj on Amanganj-Hata Road, Tehsil-Amanganj (Old Pawai), Distt. Panna-488441 (M.P.)

b. The capital investment in lakhs: Rs. 558700

c. Product & Production Capacity:

Product	CTE Qty.	Applied Qty.
Clinker	5280000.000 M.T.	5280000.000 M.T.
Cement	6000000.000 M.T.	6000000.000 M.T.
Captive Thermal Power Plant (FBC)	80.000 MWH	80.000 MWH
Waste Heat Recovery Plant	30.000 MWH	30.000 MWH
Power generation by DG set	500.000 KVA	500.000 KVA

For the purpose of this consent, the applicant shall comply with the following conditions:-

The consent & authorization (for operation) as required shall be granted to your industry after fulfillment of all the conditions mentioned above. For this purpose you shall have to make an application to this Board in the prescribed proforma at least two months before the expected date of commissioning of your industry. The applicant shall not operate the unit without obtaining consent for operation from the Board and shall not bring in to use any out let for the discharge of effluent and gaseous emission.

Enclosures:-

- * Conditions under Water Act
- * Conditions under Air Act
- * Hazardous Waste Rules

e-Signed On 17/12/2020 22:52:02
(Organic Authentication on AADHAR from UIDAI Server)
TPAV # E1BM2T1NR7

ACHYUT ANAND MISHRA
Member Secretary

This Certificate is generated from e-signing system, valid and does not require physical signature. The certificate can be validated online from the website: tpav.mppcb.org

Page 1 of 7



Consent Order

MLP, Pollution Control Board
E-8, Arera Colony
Parvathan Parisar, Bhopal - 46 MP
Tele : 0755-2466191, Fax-0755-2463742

17	Oil Specification Products	1-28.4	M.P. & other State	100	CPR.DSLR.FC.STO
18	Spent Solvents	1-28.6	M.P. & other State	1000	CPR.DSLR.FC.STO
19	Contaminated Cotton Rags or Other Cleaning Materials	1-33.2	Self Generation (From Plant M/c & Captive Mines Auto Workshop)	1000	CPR.CO.DSLR.GEN.STO
20	Sludge And Effluents Contaminated with Oil	1-3.3	Self Generation (From Plant M/c & Captive Mines Auto Workshop)	30	CPR.CO.DSLR.GEN.STO
21	Wastes or Residues Containing Oil	1-3.2	Self Generation (From Plant M/c & Captive Mines Auto Workshop)	990	CPR.CO.DSLR.GEN.STO
22	Process residues	1-22.2	M.P. & other State	100	CPR.DSLR.FC.STO
23	Spent solvent	1-26.4	M.P. & other State	100	CPR.DSLR.FC.STO
24	Process Wastes, Residues And Sludges	1-21.1	M.P. & other State (Process waste residues and sludges (Paint Sludge)	250	CPR.DSLR.FC.STO
25	Carbon Residue	1-18.2	M.P. & other State	500	CPR.DSLR.FC.STO
26	Oil from Waste Water Treatment	1-1.7	Self Generation (Oil Separation from Captive Mines Auto Workshop)	20	CPR.CO.DSLR.GEN.STO
27	Oil Sludge or Emulsion	1-4.1	Self Generation (From Plant M/c & Captive Mines Auto Workshop)	50	CPR.CO.DSLR.GEN.STO
28	Spent Ion Exchange Resin Containing Toxic Metals	1-35.2	Self Generation (From CPP)	500	CPR.CO.DSLR.GEN.SAR.STO
Gross Total for co-processing:-				20710 MT/Y	
29	Used or Spent Oil	1-5.1	Self Generation (From Plant M/c & Captive Mines Auto Workshop) sale to the registered recyclers	1000	CO.DSLR.DSLR.GEN.SAR.STO

Consent Authorization as required under the Water (Prevention & Control of Pollution) Act, 1974, The Air (Prevention & Control of Pollution) Act, 1981 & Hazardous & other Wastes (Management & Transboundary Movement) Rules, 2016 is granted to your industry subject to fulfillment of all the conditions mentioned above. The industry shall submit an application to this Board through XGN for obtaining the Consent for Operation before two months of the commencement of production. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.

(e-Signature)

e-Signed On 17/12/2020 22:52:02
(Organic Authentication on AADHAR from UIDAI Server)
TPAV # E1BM2T1NR7

(Signature)
ACHYUT ANAND MISHRA
Member Secretary

Consent No: CTE-52637

This certificate generated from the system is valid and does not require physical signatures. The certificate can be validated online from www.mepco.org or using "Digi" Reader

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F. No. IA-J-11011/224/2016-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003
E-mail: dirind-moetee@gov.in
Tel: 011-24695368
Dated: 14.10.2020

To,

M/s. Jaykaycem (Central) Ltd
Kamla Tower, Kanpur.
Kanpur Nagar, Uttar Pradesh-208001.
Email: jkamanganj@gmail.com

Subject: Greenfield integrated clinker/cement manufacturing unit (5.28 MTPA Clinker; 6.0 MTPA Cement) and captive power plant including waste heat recovery plant and Power generation thorough WHRB (80 MW FBC; 30 MW WHRB) of M/s. Jaykaycem (Central) Ltd located at Village Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil Amanganj (old Pawai), Dist. Panna, Madhya Pradesh— Environmental Clearance – regarding.

Sir,

This has reference to your online application vide proposal no. IA/MP/IND/127881/2016 on 31.03.2020 in the prescribed Form 2, EIA Report and other documents for seeking Environmental Clearance (EC) for the project mentioned in the subject. The proposed project activity is listed at Sl. No. 3(b) Cement Plants in the schedule under Category "A" in the EIA Notification, 2006 and the proposal is appraised at Central Level.

2. The project proposal of greenfield integrated cement plant for production of clinker (5.28 MTPA) and cement (6.0 MTPA) along with captive power plant (80 MW) and waste heat recovery system (30 MW) of M/s Jaykaycem (Central) Limited, is located at villages Harduaken, Puraina, Sotipura & Madaiyan, Tehsil Amanganj, District Panna (M.P.). The proposal was initially received in the Ministry on 10th September 2016 for obtaining Terms of Reference (ToR) as per EIA Notification, 2006. The project was appraised by the Expert Appraisal Committee (Industry-I) during its 11th meeting held on 26 to 27th September 2016 and prescribed ToRs to the project for undertaking detailed EIA study. Accordingly, the Ministry of Environment, Forest and Climate Change had prescribed ToR to the project on 18th April 2017 vide letter No. J-11011/224/2016-IA.II (I).

3. Based on the ToR prescribed to the project, the project proponent made an application for EC through online application vide proposal no. IA/MP/IND/127881/2016 dated 31.03.2020.

Details submitted by the project proponent

4. The proposed project of integrated cement plant by M/s Jaykaycem (Central) Ltd will be implemented in two equal phases. The proposed configuration and capacity of integrated cement plant are as given below:

Page 1 of 12



the company.

- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xiv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
27. The Ministry considered the recommendation of FAC and here by decided to accord Environmental Clearance

This issues with the approval of Competent Authority.


(A.K. Agrawal)
Director

Copy to:-

1. **Secretary**, Department of Environment, Government of Madhya Pradesh, Secretariat Bhopal.
2. **Deputy Director General of Forests(C)**, Ministry of Environment and Forest Regional Office (WZ), Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road No.3, Ravishankar Nagar, Bhopal -462 016.
3. **Chairman**, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
4. **Member Secretary**, Central Ground Water Authority, 18/11, Jamnagar House, Man Singh Road, New Delhi-110011.
5. **Chairman**, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016.
6. **District Collector**, Panna District, State Madhya Pradesh.
7. Guard File/Record File/Monitoring File.
8. MoEF&CC Website.


(A.K. Agrawal)
Director





भारत सरकार
जल शक्ति मंत्रालय
जल ससाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/s Jaykaycem (Central) Limited		
Project Address:	Harduaken, Puraina, Sotipura and Madaiyan		
Village:	Harduaken	Block:	Pawai
District:	Panna	State:	Madhya Pradesh
Pin Code:	488466		
Communication Address:	M/s Jaykaycem (Central) Limited, My Home Residency, Opposite Essar Petrol Pump, Katni Road, Amanganj, Panna, Madhya Pradesh - 488441		
Address of CGWB Regional Office :	Central Ground Water Board North Central Region, Block-1, 4th Floor, Paryawas Bhawan, Area Hills, Jail Road, Bhopal, Madhya Pradesh - 462011		

1.	NOC No.:	CGWA/NOC/IND/ORIG/2020/7350									
2.	Application No.:	21-4/863/MP/IND/2019				3.	Category:	Industry			
4.	Project Status:	New Project				5.	NOC Type:	New			
6.	Valid from:	31/01/2020				7.	Valid up to:	30/01/2022			
8.	Ground Water Abstraction Permitted:										
		Fresh Water		Saline Water		Dewatering		Total			
		m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year		
		195.00	71175.00					195.00	71175.00		
9.	Details of ground water abstraction /Dewatering structures										
Total Existing No.:0					Total Proposed No.:3						
		DW	DCB	BW	TW	MP	DW	DCB	BW	TW	MP
Abstraction Structure*		0	0	0	0	0	0	0	3	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well, BW-Bore Well, TW-Tube Well, MP-Mine Pit											
10.	Quantum of ground water recharge/harvesting(m ³ /year)					771624.00					
11.	Number of Piezometers (Observation wells) to be constructed/ monitored & Monitoring mechanism.					No. of Piezometers		Monitoring Mechanism			
							Manual	DWLR**	DWLR With Telemetry		
**DWLR - Digital Water Level Recorder					1		0	1	0		

(Compliance Conditions given overleaf)

Digitally signed by
NANDAKUMARAN P
Date: 2020.02.05 18:38:16 +05'30'

सदस्य (केन्द्रीय भूमि जल प्राधिकरण)
Member (CGWA)

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Janmagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

पानी बचाओ - जीवन बचाओ
SAVE WATER - SAVE LIFE

ENCLOSURE 4: SITE PHOTOGRAPHS OF GRINDING UNIT AND INTEGRATED UNIT

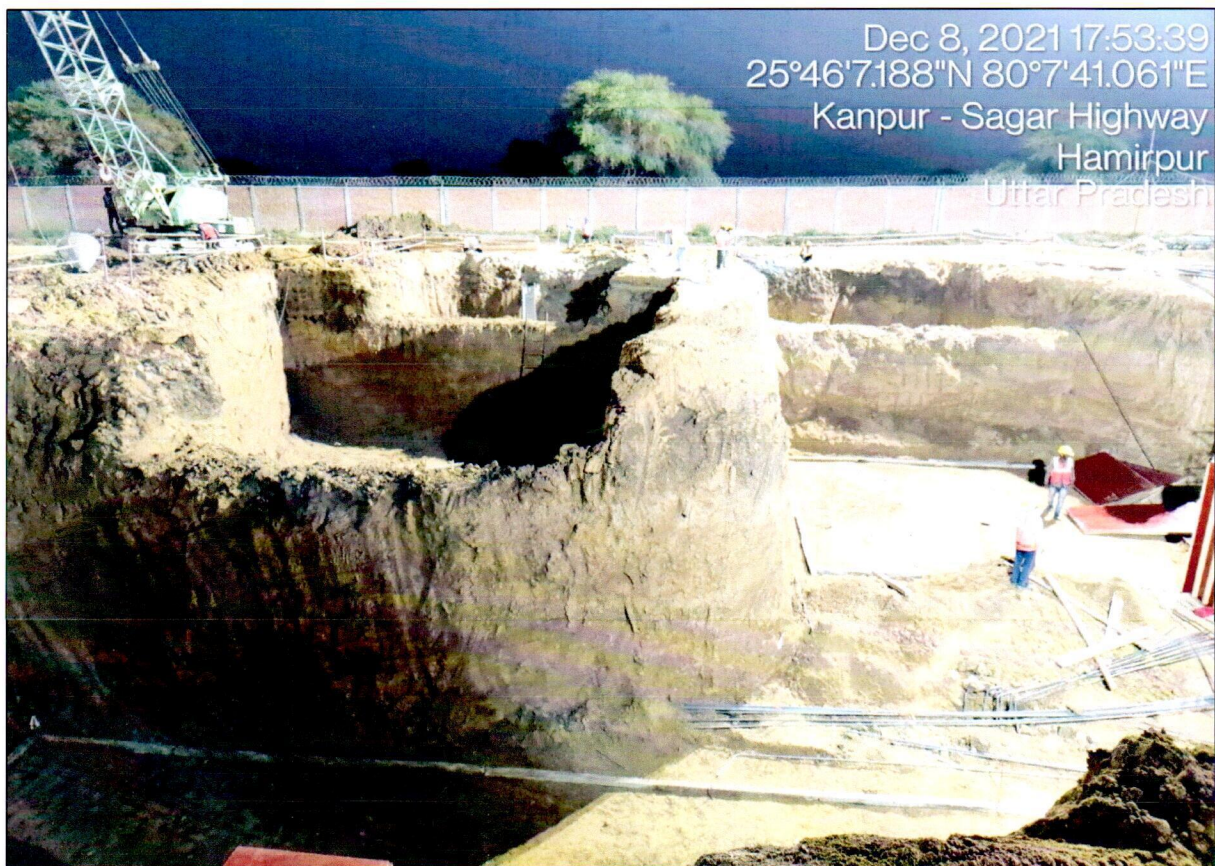
SITE PHOTOGRAPHS- GRINDING UNIT

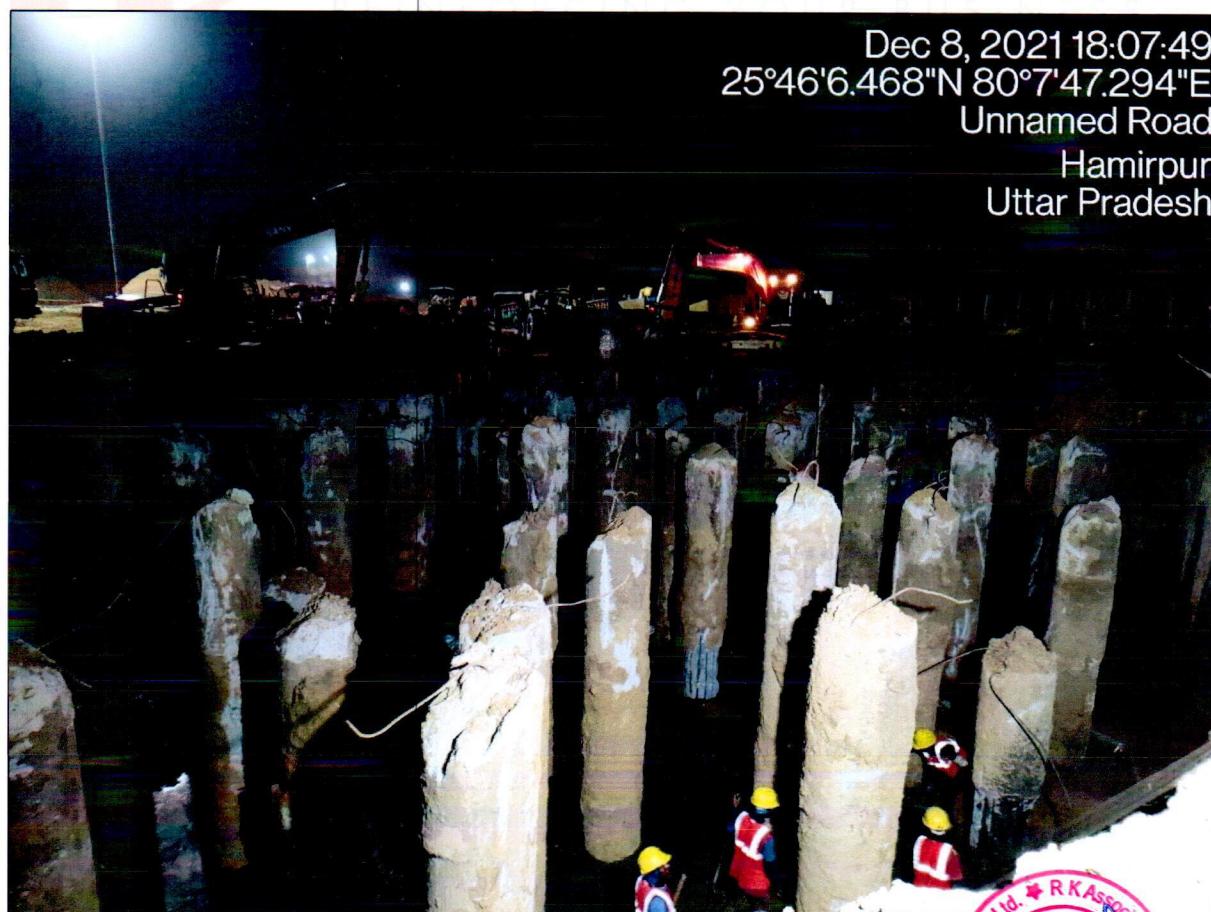














SITE PHOTOGRAPHS- INTEGRATED UNIT



6 Stage Preheater Building and Fly ash Silo



Raw Mills Complex



Bag House Area



Coal Mill Block



Raw Mill Complex 2



Fabrication Works



CCR Building



Cooler House



Clinker Silo



Cement Mill House



Clinker House



Fabricated Hoppers



Switchyard Works



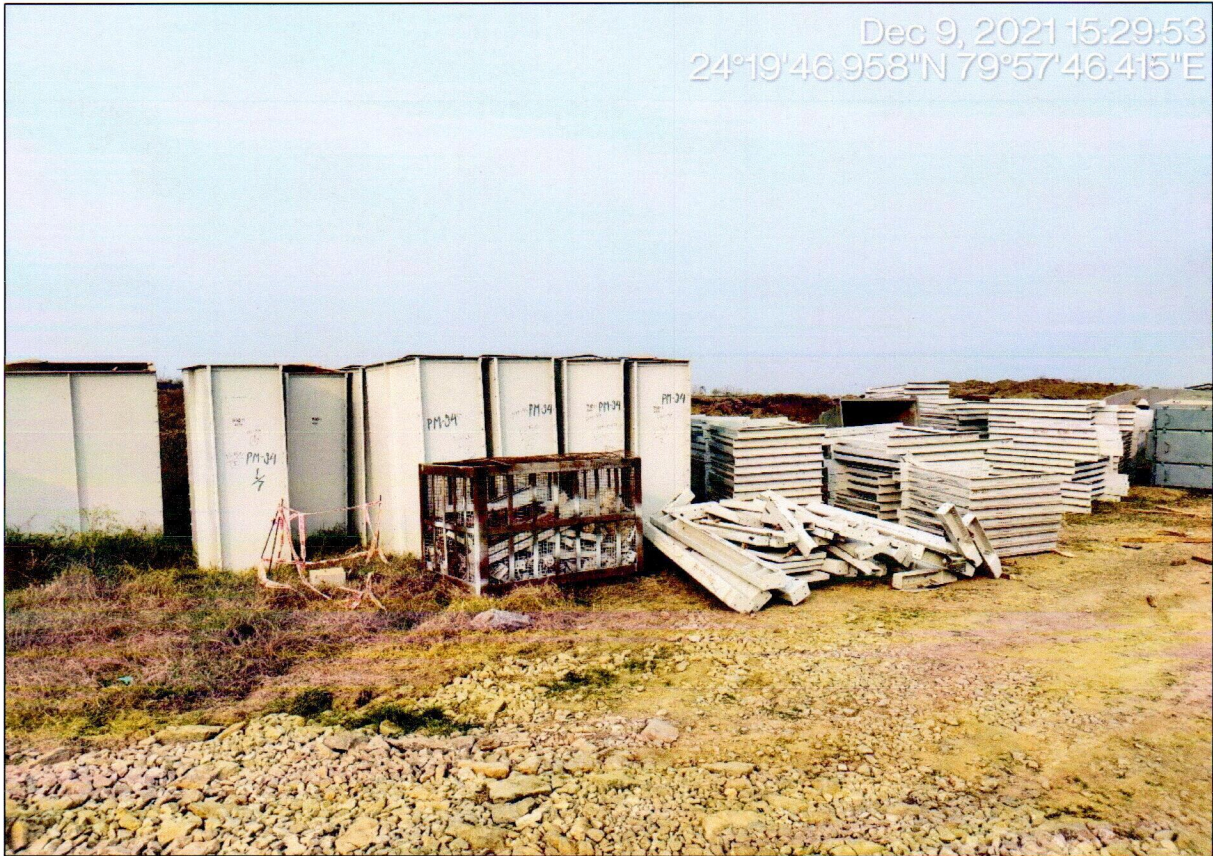
Fabricated Components



Machinery and Equipment's



Machinery and Equipment's



Machinery and Equipment's



Machinery and Equipment's





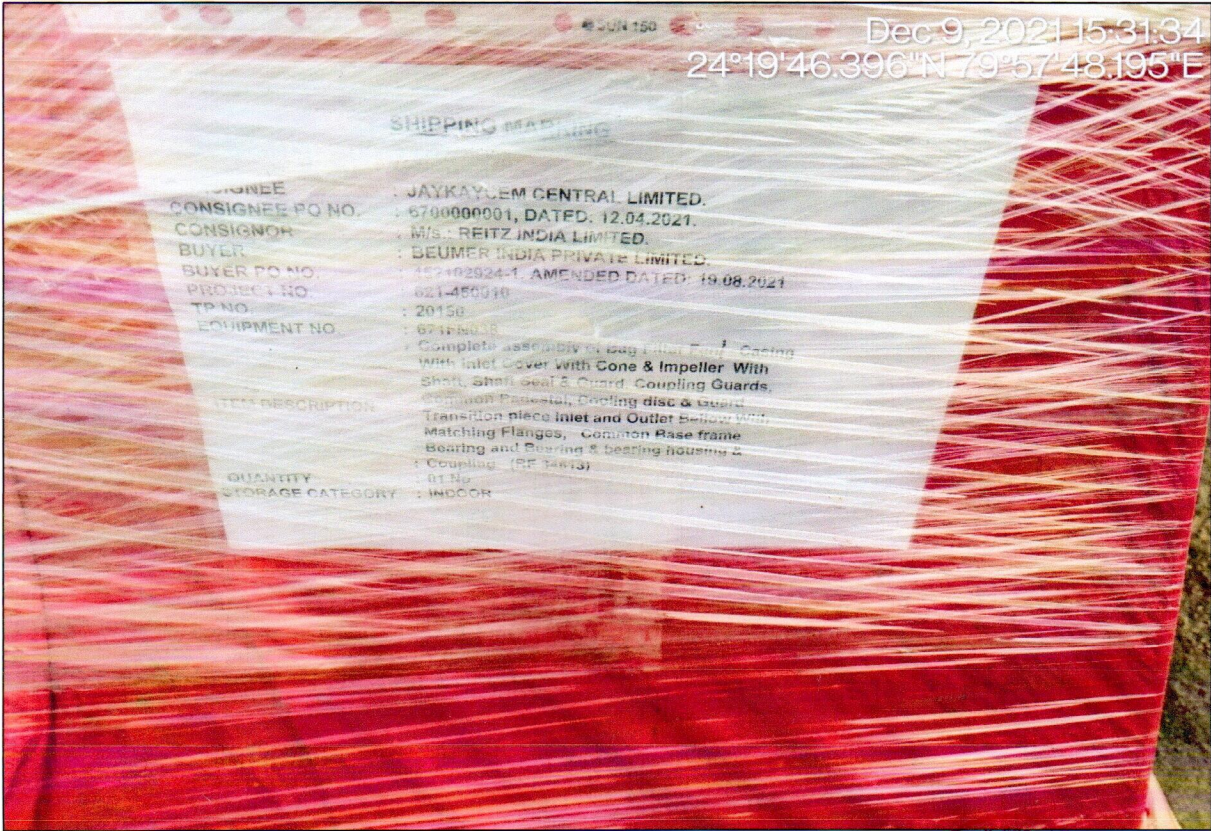
Machinery and Equipment's



Machinery and Equipment's



Machinery and Equipment's



Machinery and Equipment's



Machinery and Equipment's



Machinery and equipment's



Machinery and Equipment's



Machinery and Equipments



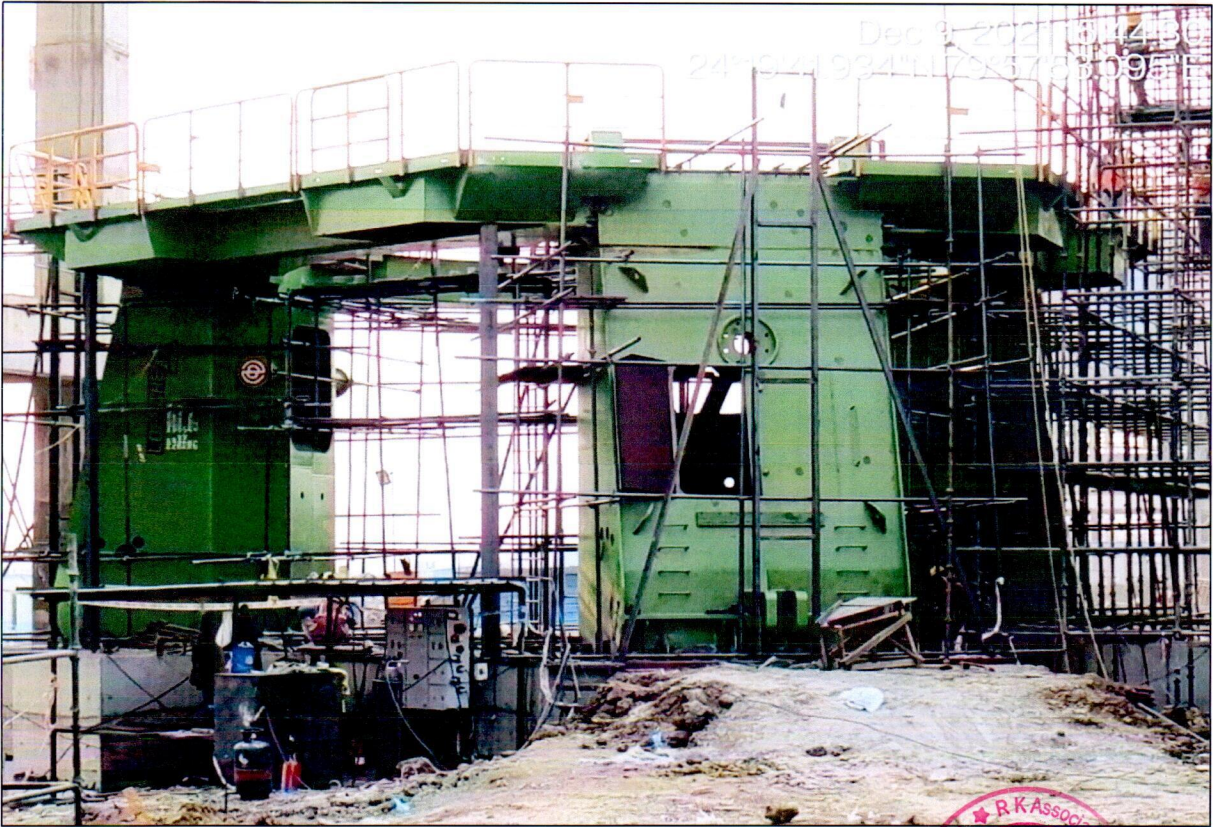
Packing House



Fabrication works



Truck Carriage Way



Cement Mill



Machinery and Equipment's



Fabrication Works



Guest House Works



Guest House Works



Admin Building and Road Works



Block works



Guest House Works



Guest House Works