



**GUJARAT INDUSTRIES POWER COMPANY LIMITED  
SURAT LIGNITE POWER PLANT (SLPP)**

**VOLUME II  
PACKAGE D  
DISMANTLING & DISPOSAL OF EXISTING LHS EQUIPMENT  
(As-is, Where-is Basis — Buy-Back by Contractor)**

Design, Engineering, Supply, and Construction of Package A, B, C & D  
**New Lignite Feeding System, Associated Works, Contingency Feeding  
Arrangement & Dismantling**

**Tender No.: GIPCL/SLPP/R&M/LHS/FB-RE/LOCATION/EPC/2026**

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**CGM (THERMAL)**

**Gujarat Industries Power Company Limited**  
Surat Lignite Power Plant (SLPP), Village: Nani Naroli, Taluka: Mangrol, Dist.:  
Surat, Gujarat



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## 1. DETAILED SCOPE OF WORK: PACKAGE D

Package D (dismantling) is included in the scope and same shall be dismantled on an "As-is, Where-is" basis; for the existing Phase-I Lignite Handling System (LHS) equipment and structures i.e. as follows:

| Sub-Package                                                         | Key Scope Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mechanical, Structural, electrical, etc.                            | <ul style="list-style-type: none"> <li>Feeder Breaker (Phase-I, existing at Vastan Mines end) – complete with pan, flights, chains, breaker roll, drive, guards and accessories, operator room.</li> <li>BCN-M1A Yard Conveyor – belt, structure, pulleys, idlers and all associated items. (in Two part)</li> <li>Stacker-cum-Reclaimer (outplant) – complete machine including rail, boom, travel, slewing mechanism, drives, electrical panels and accessories.</li> <li>Electrical Switch Gears, Transformers, VFD Containers, MCCs and associated electrical equipment at Vastan Mines end including cable, lighting poles, mast, cable racks etc</li> <li>PLC / Control Containers, Junction Boxes and field instruments at Vastan Mines end.</li> <li>Balance BCN-M1A Conveyor, Drive, take up, pulleys, idlers, Gallery, trestles and support structures up to JNT-13 including all electrical items, C&amp;I items, pipes, etc.</li> </ul> |
| Civil                                                               | For Dismantling of the equipment, structure, and any other system, any breaking/ dismantling required will be in contractor's scope.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| IT network & RFID System & Communication                            | IT network, poles, structures, boxes, panels etc whenever required in concurrence of GIPCL. Mobile network tower etc.<br><b>All IT network &amp; infrastructure shall be retained.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Firefighting system                                                 | Fire line pipe network is there along with fire hydrant posts etc. These systems have to remove as per system requirement in concurrence of GIPCL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Dismantling/ modification/ diversion/ rerouting/ temporary work etc | For completion of the package, all necessary work irrespective of discipline shall be carried-out and shall be in contractors' scope only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Usable/ recoverable items                                           | List of items provided in the tender document, that to dismantle /remove from the system and shall be kept at designated location decided by GIPCL is in contractor scope. However, the lists are indicative. GIPCL reserves the right to add/delete the items.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Exclusion                                                           | Any civil foundation, building, ramp, rail foundation, feeder breaker foundation etc. not hurdling Dismantling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Above details and system configuration, structural arrangement shall be assessed and verify the indicative description of existing equipment by bidder during site visit.**

## **1.1 Brief System Description**

### **1. Feeder Breaker**

Feeder breaker was installed in the year 1999-2000 and is in operation till now. It includes one ramp for unloading of the lignite from self unloading trucks/dumpers. Dumper hopper above feeder breaker receives lignite above dumper hopper feed to BCN-M1A after breaking of the lignite in (-)250mm size.

### **2. BCN-M1A (Conveyor and Elevated gallery structure)**

BCN-M1A is the main lignite transport conveyor system installed in 1999–2000, connecting the Vastan Mines Feeder Breaker to the SLPP plant boundary. It comprises a steel-cord belt (ST-2500, BW1400 mm) running at 2.74 m/s with a 650KW drive, and an elevated double-conveyor enclosed gallery structure of approximately 1,500 m length supported on structural trestles at 7–8 m above ground level. The system is currently operational and forms the primary lignite feed link for the Phase-I handling circuit. Only one conveyor has been installed in the system since beginning however there were provision of the second conveyor as well.

### **3. Stacker-cum-reclaimer (Outplant)**

The outplant Stacker-cum-Reclaimer (1200TPH) is located near the Vastan Mines Feeder Breaker area and serves as the lignite stockpiling and reclaiming machine for the Phase-I system. It is a large-scale material handling machine comprising a main boom structure, travel mechanism, slewing mechanism, bucket-wheel assembly, and associated electrical, hydraulic, and control systems. The OEM is M/s ThyssenKrupp. Bidder shall assess and verify the weight of the machine during the pre-bid site visit.

### **4. Electrical and C&I**

For the system operation, One MCC building is there having HT and LT switch gears along with transformer at outside the building. This building is being utilized for feeder breaker, stacker-outplant and other locations power supply.

One PLC room is placed above ground floor along with respective switch gears for local operation of the feeder breaker and other instrumental interfaces.

## **1.2 Equipment / Structures to be Dismantled**

### **Part-1 (Within 12 months from LOI)**

- a) Feeder Breaker (Phase-I, existing at Vastan Mines end) — complete with pan, flight bars, chains, breaker roll, drive, guards, lubrication system, hood cover, DSS system and all accessories.



- b) All structural arrangement of the feeder breaker like hopper, hopper grill, supporting structure, beams, columns, base frames, drive base and structures etc.
- c) Operator cabin tower structure, staircase, platform including all associated items/equipments etc.
- d) BCN-M1A Yard Conveyor — complete belt, structure (short post, stringer and other structure), tail pulley, tail pulley structure, receiving chute, skirt board and all other required items which are necessary to clear the area etc.
- e) Stacker-cum-Reclaimer (outplant) — complete machine including boom, pylon, travel mechanism, slewing mechanism, bucket wheel, drives, electrical panels, junction boxes, and all associated items including rails.
- f) Electrical Switch Gears, Transformers, VFD Containers/Rooms, Motor Control Centres and all associated electrical equipment at Vastan Mines end. All other electrical and associated equipments of feeder breaker MCC.
- g) Bidder shall remove all C&I system of Mines MCC PLC panel, Feeder breaker control desk, Stacker Reclaimer PLC panel / control desk, etc as per C&I engineer in-charge.
- h) PLC/Control desk, Junction Boxes and all field instruments, cables, associated with the Phase-I Vastan Mines end system. Buy back shall be considered for scrap instrument cables, junction boxes, PLC panel & Control desk excluding electronic modules. Various Field instruments, Fiber Optical cable, Electronic modules, Wireless system, etc will be retained by GIPCL.
- i) All other IT related network, including pole, tower cables, box etc.
- j) Any other item, not included in above and required to remove will be in contractors' scope only.

**Part-2 (Within 30 months from LOI — after Package A commissioning)**

- a) Balance yard conveyor including tail pulley and its structure and other associated structure.
- b) BCN-M1A elevated Conveyor Gallery (enclosed gallery structure), trestles and support structures from Vastan Mines end up to JNT-13 at plant end.
- c) All associated structural items, cable trays, cables, junction boxes, and electrical/C&I equipment, pipes along the BCN-M1A gallery route.
- d) All fire line network at M1A yard conveyor area and on M1A gallery.
- e) Any items which are required for temporary shifting/rerouting will be in contractor scope like pipes, cable tray etc.

**Note:** The above schedule and sequence shown are as per initial conceptualization of the system required. The sequence and arrangement may subject to change based on real time requirement of the system/project etc. Contractor has to arrange the necessary resources and mobilize the same based on GIPCL requirement. Sequence and time of dismantling shall be solemnly decided by the GIPCL only. Contractor has to take prior approval of the dismantling along with comprehensive dismantling procedure and planning. GIPCL reserves the right to ask contractor for deployment of the additional manpower/safety supervisor/competent person for approval of the dismantling process and arrangement/additional resources including crane



and machinery etc. Full proof safe dismantling process shall be complied by contractor without hampering the existing fleet movement of the lignite transportation and other routine movement. GIPCL also reserves the right to deploy safety personal/competent person/retainer to verify process and to monitor day to day dismantling work, contractor will have to co-operate for the same. Contractor have to follow the work permit system strictly as per GIPCL norms.

### 1.3 Site Clearance Requirements

- a) After dismantling, the Contractor shall clear the entire area to a condition acceptable to GIPCL/PMC.
- b) All waste material (non-scrap): properly disposed off at approved disposal site.

### 1.4 List of Usable Items and Shifting to Designated Locations

Usable / unusable items shall be segregated and transfer to allocated location / scrap yard as per instruction of engineer incharge.

List of items provided in the tender document, that to dismantle /remove from the system and shall be kept at designated location decided by GIPCL is in contractor scope. However, the lists are indicative. GIPCL reserves the right to add/delete the items.

List of items including all mechanical, electrical, C&I and IT related items are attached as List-A.

**Designated locations is inside the plant premises (approx. 2 to 3 km distance)**

## 2. DESCRIPTION OF EXISTING EQUIPMENT TO BE DISMANTLED

Bidder shall conduct a pre-bid site visit to assess and verify the following indicative description of existing equipment.

### 2.1 Feeder Breaker (Phase-I, Existing)

| Parameter                   | Known / Indicative Details                        |
|-----------------------------|---------------------------------------------------|
| Type                        | Chain-and-Flight Feeder Breaker with Breaker Roll |
| Time of commissioning       | (commissioned 1999–2000)                          |
| Capacity                    | 1,200 TPH                                         |
| Pan Width                   | 1,750 mm (approx.)                                |
| Sprocket-to-Sprocket Length | 19,000 mm (approx.)                               |
| Breaker Roll Diameter       | 1,400 mm (approx.)                                |
| Drive Motor Rating          | 2 x 110kw for feeder<br>1 x 250kw for breaker     |
| Location                    | Vastan Mines end, ~3 km from SLPP plant boundary  |

| Parameter            | Known / Indicative Details                                                 |
|----------------------|----------------------------------------------------------------------------|
| Condition            | Operating but aged (24+ years); Bidder to assess during pre-bid site visit |
| Approx. Steel Weight | To be verified by Bidder                                                   |

## 2.2 BCN-M1A Conveyor Including Yard Conveyor

| Parameter             | Known / Indicative Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time of commissioning | Commissioned 1999–2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Belt Type             | Steel cord belt ST-2500; BW 1400 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Belt Speed            | 2.74 m/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Drive Rating          | 650 kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Total Length          | Approx. 2000 m C to C; Yard conveyor portion to be assessed at site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gallery structure     | Approx. 1500m Double conveyor elevated gallery structure around 7-8 meter from ground. However, only one conveyor is installed. Another conveyor was not installed since beginning. The gallery fully covered with sheet. Gallery is supported by two leg/four leg trestles. Most of the gallery are 24 meter in length. Both the sides of the gallery there is merry-go-round lignite transportation road is there. Most of the gallery have chequered plate at center walkway and side walkway and hand rail on both side walkway. One side walkway is not installed since beginning. All gallery have seal plate below conveyor belt. |
| Structure             | Gallery trestles with conveyor support brackets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Condition             | Operating; Bidder to assess during site visit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## 2.3 Stacker-cum-Reclaimer (Outplant)

| Parameter            | Known / Indicative Details                         |
|----------------------|----------------------------------------------------|
| Type                 | Stacker-cum-Reclaimer (bucket wheel type)          |
| OEM                  | M/s ThyssenKrupp                                   |
| Location             | Outplant area near Vastan Mines Feeder Breaker     |
| Condition            | To be assessed by Bidder during pre-bid site visit |
| Approx. Steel Weight | Indicative ~300-350 MT; Bidder to verify           |



**NOTE:** All quantities and weights are indicative. Bidder shall conduct a pre-bid site visit and submit a verified inventory with the Technical Bid. GIPCL does not guarantee the accuracy of indicative weights/quantities.

### **3. BUY-BACK CONTRACT BASIS AND COMMERCIAL TERMS**

#### **3.1 Buy-Back Basis**

- a) Contract Type: "As-is, Where-is" dismantling
- b) For detail refer volume-1 GCC and SCC.

#### **3.2 Pre-Dismantling Inventory and GIPCL's Right to Retain Spares**

Before dismantling initiation, contractor shall submit the list of the inventory that to be dismantled. GIPCL reserves the right to ask contractor for items to retained. No price adjustment shall be made for items retained by GIPCL.

#### **3.3 Schedule of Execution**

| <b>Part</b> | <b>Scope</b>                                                                                                                              | <b>Prerequisite</b>               | <b>Timeline from LOI</b>  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------|
| Part-1      | Removal of Feeder Breaker, BCN-M1A Yard Conveyor (in 750 MW area), Stacker-cum-Reclaimer, and all associated electrical/C&I equipment     | Package commissioning completed C | Within 12 months from LOI |
| Part-2      | Removal of BCN-M1A Conveyor Gallery, trestles, and support structures up to JNT-13; all residual electrical/C&I items along gallery route | Package commissioned A            | Within 30 months from LOI |

**Note:** Bidder has to provide the progress report on fortnightly basis. Details of progress can be in MT / % etc.



## 4. DISMANTLING METHODOLOGY REQUIREMENTS

### 4.1 General Methodology

- a) Contractor shall prepare and submit a Detailed Dismantling Methodology and Plan (DMP) to GIPCL/PMC for approval at least 30 days before commencement of any dismantling work.
- b) DMP shall cover: sequence of dismantling, equipment/machinery to be used, crane capacities, rigging plans, cutting and demolition methods, personnel requirements, safety plan, traffic management.
- c) All dismantling shall be carried out safely with proper planning, Permit to Work (PTW) compliance, and use of appropriate cranes and lifting/shifting equipment of valid legal certification.
- d) No burning / gas-cutting to be carried out without a valid Hot Work Permit (HWP).
- e) Dismantled steel shall be cut to transportable sizes (max. 6 m length unless instructed otherwise by GIPCL/PMC).

### 4.2 Gallery Dismantling (Part-2) — Special Requirements

- a) BCN-M1A Gallery dismantling shall only commence after Package A is commissioned and the existing Phase-I LHS is formally decommissioned. Written clearance from GIPCL/PMC is required before commencement.
- b) Dismantling sequence for gallery: starting from Vastan Mines end and progressing towards JNT-13; each bay to be fully dismantled (cladding → belt/idlers → purlins → rafters → columns/trestles) before moving to next bay.
- c) High-work safety provisions: full-body harness for all workers at height; lifelines; scaffold for access.
- d) No free-fall of dismantled components; controlled lowering using crane, chain pulley blocks, or rope tackles at all times.
- e) Protect all live plant equipment, utilities, roads, and structures below/adjacent to the gallery during dismantling.

### 4.3 Electrical and Mechanical Equipment Dismantling

- a) All electrical equipment (MCC, switch gears, VFD containers, cables, instruments): isolated (LOTO) before dismantling; LOTO compliance mandatory.
- b) Feeder Breaker dismantling: chain and flight bars removed first; then breaker roll; then main frame; then hopper; then foundation anchor bolts/grout.
- c) Stacker-cum-Reclaimer: OEM manual to be followed; jacking points and lifting arrangements as per OEM; slewing ring to be properly supported before removal. **(Note: For stacker-cum-reclaiming machine, Comprehensive dismantling planning including resource deployment shall be submitted by contractor and shall be approved by competent person/experts only. GIPCL reserves the right to ask contractor for bringing of the expert person at site during dismantling having real experience of the dismantling of the stacker-cum-reclaimer machine).**

**All the necessary arrangement shall be carried out by contractor including supporting structure for boom, sufficient capacity cranes etc.**

- d) All lubricating oil and hydraulic oil: drained and disposed of in an environmentally compliant manner before equipment is cut/dismantled.

#### **4.4 Exclusion**

**Any civil foundation, building, ramp, rail foundation, feeder breaker foundation etc.**

However, for completion of the package, all necessary work irrespective of discipline shall be carried-out and shall be in contractors' scope only.

### **5. SAFETY REQUIREMENTS — PACKAGE D**

Dismantling works carry significant safety risks (working at height, hot work, heavy lifts, proximity to operating fleets, manual movement, electrical isolation). The following minimum safety requirements shall be strictly adhered to.

#### **5.1 Permit to Work (PTW) System**

- a) All dismantling activities on operating plant equipment or in proximity to live systems require a Permit to Work (PTW) issued by GIPCL's PTW authority.
- b) Cold Work Permit: For all mechanical dismantling, demolition, and erection activities.
- c) Hot Work Permit (HWP): For all cutting, welding, or burning activities.
- d) Electrical Isolation Permit: For all electrical dismantling; LOTO (Lock Out Tag Out) mandatory.
- e) Confined Space Entry Permit: If work inside hoppers, pits, or enclosed structures.
- f) Work at Height Permit: For all work above 1.8 m.
- g) Area barricading for work in progress boards, Safety and caution supervisor deployment at surrounding of the work to avoid unwanted movement in the area.

#### **5.2 Personnel Safety**

- a) All workers to be trained and briefed on dismantling risks; site induction mandatory for all personnel.
- b) PPE: Hard hat, safety shoes, high-visibility jacket, full-body harness (working at height > 1.8 m), safety goggles, gloves.
- c) Tool Box Talk (TBT): Daily before commencement of work; record maintained.
- d) No persons below suspended loads; exclusion zone around crane operations.
- e) First-aid equipment: Fully stocked first-aid kits at site; trained first-aider present at all times during work.

### 5.3 Crane and Lifting Safety

- a) All cranes and lifting equipment: Third-party certified; operator must hold valid crane operator licence.
- b) Crane rated capacity to be clearly displayed; no overloading.
- c) Test lift before each major lift to confirm crane stability.
- d) All rigging (slings, shackles, hooks): certified, colour-coded, inspected before each lift.
- e) A Lift Plan (for lifts >1 tonne) to be submitted and approved before each major lift.

### 5.4 Environmental Safety

- a) All lubricating oil, hydraulic oil, and other fluids: collected in drip trays/drum; no spillage to ground.
- b) No burning of oil, cables, rubber components or any scrap.
- c) Scrap metal transportation: covered trucks; no loose material on public roads. Trucks shall be with proper signage at back carrying sharp nail debris.
- d) All scrap / debris should be shifted to designated location.

## 6. QUALITY ASSURANCE PLAN — PACKAGE D

### 6.1 Dismantling QA Requirements

The QAP for Package D shall cover the dismantling and site clearance activities. While the nature of dismantling work differs from construction, the following quality/verification activities are required:

| Activity                       | Verification / Check                                      | Frequency                                                | Record Required               |
|--------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------|
| Pre-dismantling inventory      | List of all equipment/items; condition survey; photos     | Before commencement of each part                         | Signed inventory list; photos |
| LOTO verification (electrical) | Isolation confirmed; padlocks applied; tag signed         | Before each dismantling activity on electrical equipment | LOTO register                 |
| PTW compliance                 | PTW issued; conditions satisfied; safety officer sign-off | Each work shift                                          | PTW register                  |
| Crane pre-use inspection       | Crane condition; certificate validity; operator licence   | Weekly                                                   | Crane pre-use checklist       |



| Activity                                     | Verification / Check                                    | Frequency               | Record Required                  |
|----------------------------------------------|---------------------------------------------------------|-------------------------|----------------------------------|
| Lift plan approval                           | Lift plan reviewed by GIPCL/PMC for lifts >1 tonne      | Each major lift         | Lift plan record                 |
| Final site clearance                         | Survey; area cleared; GIPCL/PMC sign-off                | After completion Part-1 | Final survey; GIPCL/PMC sign-off |
| Final site clearance (BCN-M1A gallery route) | All structure removed; cable trenches sealed/filled     | After completion Part-2 | Survey; GIPCL/PMC sign-off       |
| Oil/fluid disposal                           | Waste oil disposal certificate from authorised facility | Each disposal event     | Disposal certificate             |

## 7. DOCUMENTATION REQUIREMENTS — PACKAGE D

### 7.1 General Documentation Requirements

The Contractor shall establish and maintain a document control system covering all documentation associated with Package D works. All documents shall be submitted in editable soft copy (MS Word / MS Excel) and one hard copy (duly signed) unless otherwise specified. Documents shall be in English. All required approvals from GIPCL/PMC shall be obtained prior to commencing the relevant activities.

### 7.2 Documents to be Submitted After Award

| Sr. | Document                                                          | Timeline                                                |
|-----|-------------------------------------------------------------------|---------------------------------------------------------|
| 1   | Detailed Dismantling Methodology and Plan (DMP) — Part-1          | Well in advance before commencement of Part-1           |
| 2   | L1/L2 Schedule for Package D (Part-1 and Part-2)                  | Well in advance before commencement of Part-2           |
| 3   | Safety Plan and Emergency Response Plan                           | 30 days before commencement                             |
| 4   | Lift Plans for all major lifts (>1 tonne)                         | Before each major lift                                  |
| 6   | Detailed Dismantling Methodology and Plan (DMP) — Part-2          | 30 days before commencement of Part-2                   |
| 7   | Site clearance completion report                                  | At completion of Part-1; with survey records and photos |
| 8   | Final site clearance completion report (BCN-M1A gallery)          | At completion of Part-2; with survey records and photos |
| 9   | Waste disposal certificates (oil, batteries, hazardous materials) | Within 7 days of each disposal event                    |



| Sr. | Document                                                                                         | Timeline                                  |
|-----|--------------------------------------------------------------------------------------------------|-------------------------------------------|
| 10  | As-Dismantled Records (photos, video, final inventory)                                           | Within 30 days of completion of each Part |
| 11  | Signed copy of the list of items irrespective of discipline that shifted to designated locations | Within 30 days of completion of each Part |

### 7.3 Completion Criteria

- e) Part-1 completion: All specified equipment and structures removed; area cleared; GIPCL/PMC joint inspection completed; site handed over to GIPCL with GIPCL sign-off.
- f) Part-2 completion: BCN-M1A balance yard conveyor, gallery and all trestles removed; area cleared and levelled; GIPCL/PMC joint inspection; as-dismantled documentation submitted; GIPCL sign-off on Taking Over.

### 7.3.1 List of Usable/ Recoverable items and shifting to designated locations (List-A)

Designated locations is inside the plant premises (approx. 2 to 3 km distance)

#### Mechanical

| Sr. No.                  | Item Description                                                                                      | Qty          |
|--------------------------|-------------------------------------------------------------------------------------------------------|--------------|
| <b>Stacker-Reclaimer</b> |                                                                                                       |              |
| 1                        | Travel Bogie assly. with GB & Motor                                                                   | 6            |
| 2                        | Follower Bogie + Idle bogie-single wheel                                                              | 10           |
| 3                        | Hydraulic cylinder-boom luffing assly                                                                 | 2            |
| 4                        | Hydraulic Power pack -boom luffing                                                                    | 1            |
| 5                        | Hydraulic cylinder (operator cabin)                                                                   | 1            |
| 6                        | Hydraulic power pack (operator cabin)                                                                 | 1            |
| 7                        | Bucket wheel drive (Gearbox, +Coupling etc)                                                           | 1            |
| 8                        | Boom conveyor drive (Gearbox, +Coupling etc)                                                          | 1            |
| 9                        | Slew drive (Gearbox, +Coupling etc)                                                                   | 2            |
| 10                       | Bucket wheel assembly with bucket                                                                     | 1 Set        |
| 11                       | PCRD system                                                                                           | 1            |
| 12                       | Boom conveyor pulley- head pulley & tail pulley                                                       | 2            |
| 13                       | All carrying and return frames with idlers                                                            | 1set         |
| 14                       | Operator cabin                                                                                        | 1            |
| <b>BCN-M1A</b>           |                                                                                                       |              |
| 1                        | Carrying garland assembly                                                                             | All          |
| 2                        | Return garland assembly                                                                               | All          |
| 3                        | Carrying frame                                                                                        | All          |
| 4                        | Return frame                                                                                          | All          |
| 5                        | Carrying idlers                                                                                       | All          |
| 6                        | Return idlers                                                                                         | All          |
| 7                        | Snub Pulley with Brg. & housing                                                                       | 1            |
| 8                        | Scoop Coupling+ flexi coupling+ Force lubrication system                                              | 1            |
| 9                        | Grating, deck & Seal Plate                                                                            | 100 Nos each |
| 10                       | Solar line (GI line and valves) shall be retained by GIPCL vide package-D                             |              |
| 11                       | All Landing valves and isolation valves of the fire hydrant shall be retained by GIPCL vide package-D |              |
| 12                       | Pressure Pulley                                                                                       | 4            |
| <b>Feeder breaker</b>    |                                                                                                       |              |
| 1                        | Breaker drive traction / fluid coupling                                                               | 1            |
| 2                        | Breaker drive gearbox                                                                                 | 1            |
| 3                        | Flexible coupling for chain drive                                                                     | 2            |
| 4                        | Gearbox for chain drive                                                                               | 2            |
| 5                        | Breaker rotor Assly with brg & housing                                                                | 1 set        |



|    |                                        |       |
|----|----------------------------------------|-------|
| 6. | Head sprocket assly with Brg & housing | 1 set |
| 7. | Tail sprocket assly with Brg & housing | 1 set |

#### **ELECTRICAL:**

| SR. NO                            | DESCRIPTION                                  | QUANTITY |
|-----------------------------------|----------------------------------------------|----------|
| <b>FEEDER BREAKER</b>             |                                              |          |
| 1                                 | 500 KVA 6600/415V TRANSFORMER                | 2        |
| 2                                 | HT BOARD                                     | 1        |
| 3                                 | LT BOARD                                     | 1        |
| 4                                 | ALL HT & LT CABLES (FROM JNT-13 TO F/B)      | 4 KMS    |
| 5                                 | LOAD BREAK SWITCH                            | 2        |
| 6                                 | MLDB                                         | 1        |
| 7                                 | LIGHTING FIXURES (F/B & M1A GALLERY)         | 1000     |
| 8                                 | LP & RECEPTACLES                             | 5 + 4    |
| 9                                 | BATTERY CHARGERS & BATTERY BANK              | 2 + 1    |
| 10                                | VFD PANELS                                   | 2        |
| 11                                | VFD PANELS LT BOARD                          | 1        |
| 12                                | DRY TYPE TRANSFORMER WITH BREAKER PANEL      | 1        |
| 13                                | SYNCHRONIZING PANEL                          | 1        |
| 14                                | TRANSFORMER BUSDUCT                          | 2        |
| 15                                | SLDB                                         | 1        |
| 16                                | CHANGE OVER PANEL                            | 3        |
| 17                                | AIR CONDITIONERS                             | 3        |
| 18                                | LUMP BREAKER HT MOTOR 250 KW                 | 1        |
| 19                                | CHAIN DRIVE 132 KW LT MOTORS                 | 2        |
| <b>STACKER-RACLAIMER OUTPLANT</b> |                                              |          |
| 1                                 | DRY TYPE TRANSFORMER & NGR                   | 1        |
| 2                                 | HT BREAKER PANEL                             | 1        |
| 3                                 | PCRD HT CABLE                                | 250 M    |
| 4                                 | LT BOARD                                     | 1        |
| 5                                 | MARSHALLING PANELS                           | 10       |
| 6                                 | MLDB                                         | 1        |
| 7                                 | LP                                           | 2        |
| 8                                 | RELAY CUM FAULT INDICATION PANEL             | 1        |
| 9                                 | DC SLEW DRIVE PANEL                          | 1        |
| 10                                | TRAVEL DRIVE SOFT STARTER PANEL              | 1        |
| 11                                | HT POWER JB & PCRD SLIPRING                  | 2        |
| 12                                | SLEW DRIVE DC MOTORS                         | 2        |
| 13                                | TRAVEL DRIVE MOTORS WITH THRUSTERS           | 6        |
| 14                                | MOTORS OF BOOM, BUCKET, PCRD, HYDRAULIC ETC. | 6        |



|    |                  |    |
|----|------------------|----|
| 15 | LT PJBS & LCS    | 10 |
| 16 | AIR CONDITIONERS | 3  |

**C&I:**

| Sr. No.                       | Item Description            | Qty |
|-------------------------------|-----------------------------|-----|
| <b>Mines RIO</b>              |                             |     |
| 1                             | Siemens IM module           | 2   |
| 2                             | Siemens DI Module           | 6   |
| 3                             | Siemens DO Module           | 3   |
| 4                             | Siemens AI Module           | 2   |
| 5                             | Power Supply Module         | 2   |
| 6                             | 620 MM Rail                 | 1   |
| 7                             | Profibus connector          | 3   |
| 8                             | OLM module                  | 1   |
| 9                             | Wireless system             | 1   |
| 10                            | Front Connector             | 11  |
| <b>O/P Stacker reclaimers</b> |                             |     |
| 1                             | Siemens PLC CPU             | 1   |
| 2                             | Siemens IM module           | 2   |
| 3                             | Siemens DI Module           | 5   |
| 4                             | Siemens DO Module           | 3   |
| 5                             | Power Supply Module         | 2   |
| 6                             | 620 MM Rail                 | 1   |
| 7                             | Profibus connector          | 3   |
| 8                             | Wireless system             | 1   |
| 9                             | Rexroth VT 3000 card + Base | 1   |
| 10                            | Front Connector             | 8   |

**IT:**

| Sr. No. | Item Description |
|---------|------------------|
| 1       | All Items        |