

PART-‘C’

ADDITIONAL ANNEXURES PERTAINING TO TECHNICAL SPECIFICATION OF MOBILE CRANE

ANNEXURE-I**PACKAGING INSTRUCTIONS**

1 X 26 MW 11/33 kV Gas Fired Power Plant & Associated Gas Supply Facility in Calabar, Nigeria: Shipping and Packaging Instructions.

Following dispatch instructions for effecting supplies under the above contract are being issued for compliance by all.

Sr No	Details
A	<u>SHIPPING MARKS ON PACKAGE/CASE:</u> Each package shall be clearly marked or stencilled on at least two sides as follows: <u>Project Description:</u> "1 X 26 MW 11/33 kV Gas Fired Power Plant & Associated Gas Supply Facility in Calabar, Nigeria " (A) <u>ULTIMATE CONSIGNEE:</u> TO THE ORDER OF STERLING BANK PLC, 20 MARINA, LAGOS NIGERIA. CROSS RIVER STATE, MINISTRY OF POWER, 20 NDIDEM ISO ROAD, CALABAR MUNICIPAL, CROSS RIVER STATE, REPUBLIC OF NIGERIA (B) <u>PORT CONSIGNEE (FOR DELIVERY PURPOSE): (SUPPLIER WILL DELIVER THE MATERIAL UP TO FOLLOWING BHEL-ROD MUMBAI GODOWN/ PORT)</u> <u>DESTINATION:</u> <u>All materials to be dispatched under intimation to ROD Mumbai:</u> 1. Consignment shall be sent to the following address/or Mumbai Port/ or the address intimated by BHEL after placement of PO before delivery of material. - M/s. Virgo Logipark Pvt. Ltd. A/C. M/s. P. S. Prajapati Exim Pvt. Ltd. NH-48, Near Toll Naka, Village- Jasai, Tal: Uran-400702, Dist : Raigad, Maharashtra Contact Person: Mr. Munna Sharma (Mobile: 09619403971, 09619651080.) <u>The intimation shall be sent to the following address below-</u> Shri Sanjeev Shikhare Sr DGM, Bharat Heavy Electricals Ltd Regional Operations Division, 14th/15th Floor, World Trade Centre-1, Cuffe Parade, Colaba, Mumbai-400 005 Ph No-022-22171 301 Mob – 9820029376 E-mail rodsds@bhel.in <u>Exporter:</u> Bharat Heavy Electricals Limited International Operations Division New Delhi –110003, INDIA <u>Final Destination:</u> 26 MW Gas Fired Power Plant, Calabar Site, Cross River State, Nigeria Each package should have the following inscriptions and signs stencilled with an indelible ink legibly and clearly:

	Package number: BHEL/CAL/PNR/VENDOR/01 Gross weight and Net weight in kgs: Dimensions (L X B X H) in cm:
B	<u>GENERAL PACKING INSTRUCTION AND INSPECTION PRIOR TO DISPATCH OF MATERIAL BY SUPPLYING UNITS / SUB-VENDORS:</u>
	Packing (tare) shall be part of the Equipment cost and shall not be subject to return. The packing should ensure integrity and cohesiveness of each delivery batch of Equipment during transportation. In case of Equipment assemblies and unit's delivery in the packing of glass, plastics or paper, the specification of packing with the material and weight characteristics are to be indicated. Hazardous goods must be packed as per international standards/practice. Case Number Marking: Cases which cannot be marked as above shall have metal tags with the necessary markings on them. The metal tags shall be securely attached to the packages with strong steel binding wire.
	All equipment and materials and other Plant shall be suitably coated wrapped, or covered and boxed or crated for export shipment and to prevent damage during handling and storage at the Site. Cardboard boxes shall be enclosed in a solid wooden cases.
	Equipment and process materials shall be packed and semi-knocked down, to the extent possible, to facilitate handling and storage and to protect bearings and other machine surfaces from oxidation. Each container, box, crate or bundle shall be reinforced with steel strapping in such a manner that breaking of one strap will not cause complete failure of the packaging. The packing shall be of best standard to withstand rough handling and to provide suitable protection from tropical weather while in transit and while awaiting erection at the site.
	Equipment and materials in wooden cases or crates shall be properly cushioned to withstand the abuse of handling, transportation and storage. Packing shall include preservatives suitable to tropical conditions. All machine surfaces and bearings shall be coated with oxidation preventative compounds. All parts subject to damage when in contact with water shall be coated with suitable grease and wrapped in heavy asphalt or tar impregnated paper
	Crates and packing material used for shipping will become the property of Employer. Shippers container used for transportation of material shall be returned to the Contractor.
	Each part of the equipment which is to be shipped as a separate piece or smaller parts packed within the same case shall be legibly marked to show the unit of which it is part, and match marked to show its relative position in the unit, to facilitate assembly in the field. Unit marks and match marks shall be made with steel stamps and with paint.
	Wherever necessary besides usual Inscriptions the cases shall bear special indication such as "Top", "Do not turn over", "Care", "Keep dry", etc., as well as indication of the center of gravity (with red vertical lines) and places for attaching slings (with chain marks).
	For all fragile equipment , unit should take special care to pack and label with additional markings such as " FRAGILE- HANDLE WITH CARE" , " LIFTING POINTS" , " THIS WAY UP" , " DO NOT STACK" etc. to protect them from damage in transit.
	Concerned CQA/Vendor QC/Third Party Inspection Agency shall verify the completeness of contents of each package w.r.t packing list both in terms of quality and quantity before authorizing dispatch of the consignment. Unit commercial to ensure the content of the package as per the packing list before dispatching to ROD especially vendor items and shall keep proper record of each package sent.
	Packing commensurate with international standards and accepted norms will be ensured by CQA/ Unit QC/Third Party Inspection Agency. Packing has to be sea-worthy and secure. As far as possible, the packing has to be rectangular in shape for optimum space utilization in the ship and economize on shipping costs. Projections on packages are prohibited
	The packing list has to be checked and certified by the Inspection agency with due signatures. All packages shall be enclosed in suitable GI sheets on all sides.

	No loose items / Gunny bag packing are allowed for shipment. Proper pallets and crates are to be used for packing of Oil drums and Structures, if any.
	<u>Routing of Packing Lists:</u> Packing list is an extremely important document, which forms a part of export documentation in connection with the processing of customs formalities. Packing List has to be generated by units/Unit vendors and sent to IO and ROD, two weeks in advance, for processing and obtaining shipping bills' clearances and avoiding any delay at Mumbai port.
	<u>Advance intimation to ROD- Mumbai & IO:</u> All supplying units/vendors will give at least 15 days advance intimation to ROD-Mumbai & IO along with package details before actual dispatches to arrange for storage/shipping arrangements by ROD Mumbai. Information must be sent to consolidate the details and arrange for shipments in time.
	<u>Telephonic Intimation to ROD Mumbai of Movement of Vehicles:</u> Vehicle drivers to be instructed by the supplier to contact ROD Mumbai/PSNR Noida regarding movement of vehicles on daily basis for heavy lifts. Especially 2 days before arrival at Mumbai so that suitable directives can be given to the driver of the vehicle for further transportation of the goods to either docks or godown.
	<u>Bond or Letter of Undertaking:</u> Vendor to ensure compliance of CBEC Notification no. 16/2017-Central Tax Dated 07.07.2017 and CBEC Circular No. 4/4/2017- GST Dated 07.07.2017 <u>Sealing of Container:</u> Vendor to ensure CBEC Circular 26/2017 may please be followed. <u>Other Procedures w.r.t Export:</u> Various guidelines issued time to time from CEBC regarding export may please be referred and to be followed
	<u>Provision of Inspection Windows on Packages:</u> Unit/Vendors should provide inspection window of size 6" x 4" (glass perplex) for customs examination for all packages (above 1.5 x 1.5 x 1.5 cum) involving panels of any kind. Care would be taken to ensure that all packages are properly sealed to avoid ingress of moisture, rodents etc. Packing slip folders shall be attached in each box.
	<u>Transportation Drawings for Heavy Weight/ODC consignment:</u> Detailed engineering documents (at least 4 sets) for all items of the above category shall be furnished by respective units to issue shipment enquiries in a proper manner. The drawing has to include center of gravity of the item clearly (Units to identify such items and notify IO as soon as the engineering documents are released).
	<u>Lifting Beams:</u> All heavy lifts for which safe handling is essential at the port of dispatch shall be accompanied by lifting beam on non-returnable basis
	<u>Marking for Safe Handling:</u> To ensure safe handling, packing case shall be marked to show the following: • Upright position. • Sling position and Centre of Gravity position. • Storage category. • Fragile components (to be marked properly with a clear warning for safe handling).
	<u>Marine Insurance Policy:</u> Insurance cover for shipment of material from unit works/ vendor works to ROD, Mumbai upto boarding of material on ship shall be taken by BHEL. Marine Insurance cover for shipment of material from Indian port to Nigerian port shall be taken by BHEL IO.
	<u>GST Invoice as per M form.</u> Following details, if/as applicable to be mentioned in GST Invoice for Export – 1. Forex Bank Account no. for all type of Shipping Bill. 2. Authorized Dealer Code no. with Name of Bank for all type of Shipping Bill. 3. Duty Drawback Account no. with IFS code of Bank for Drawback Shipping Bill.

	As invoice will be used for export custom clearance details like HS code; CIF value, Freight value, Insurance value, FOB value in FC; Shipper name; Manufacturer name; Shipping bill type; Port of Loading (POL); Port of Discharge (POD); DBK serial no; Advance authorization no; EPCG License no, as applicable should appear on invoice. <u>Vendor to provide invoice to BHEL PSNR and packing list to ROD Mumbai/ BHEL PSNR Noida.</u>
	• Type of Shipping Bills. • All Units have to send their DEEC & EPCG license details to ROD Mumbai as per cargo dispatches.
	Catalogues/literature/write-up in case of customs endorsement for discharging exports obligation in case of DEEC imports to be made available to ROD before arrival of goods in the city of port of dispatch
	<u>All materials to be dispatched under intimation to ROD Mumbai:</u> 1. Consignment shall be sent to the following address/or Mumbai Port/ or the address intimated by BHEL after placement of PO before delivery of material. - M/s. Virgo Logipark Pvt. Ltd. A/C. M/s. P. S. Prajapati Exim Pvt. Ltd. NH-48, Near Toll Naka, Village- Jasai, Tal: Uran-400702, Dist : Raigad, Maharashtra Contact Person: Mr. Munna Sharma Mobile: 09619403971, 09619651080. <u>The couriers /correspondence shall be sent to the following address -</u> Shri Sanjeev Shikhare Sr DGM, Bharat Heavy Electricals Ltd Regional Operations Division, 14th/15th Floor, World Trade Centre-1, Cuffe Parade, Colaba, Mumbai-400 005 Ph No-022-22171 301 Mob – 9820029376 E-mail rodsds@bhel.in
	<u>Customs formalities Period:</u> Packages arriving at the port shall have a minimum time of 3 working days for customs examination and other related formalities in respect of the cargo under shipment. The goods received after arrival of the ship may not be loaded if either sufficient time does not exist or space available in the ship is booked by the carrier for other exporters due to lack of availability of the goods at the port in time for shipment from BHEL. In case, where the committed cargo to the carrier based upon information received from all the units does not reach in time of scheduled shipment at the port of dispatch, IO would be within its right to decide the priority of loading as per the project schedule requirements given the condition that adequate space in the ship is not available to accommodate the cargo.
	<u>Shipping Procedures and ROD Responsibilities:</u> Consolidation of Packages and Storage in Warehouse. ROD either themselves or through their CHA would ensure following: • Proper storage of goods at an elevated level if store is in open to avoid damages to the consignment during rainy season (All the packages to be covered with a proper tarpaulin in open storage). • All Electrical and C&I items to be stored indoors. • Consolidation of the goods as per summary packing lists. • Check marks and numbers on packages. Carry out the corrections, if necessary. • Label the packages linking to the proposed shipping carrier to ensure that package does not get left out. • Repair any damage to the packing before loading onto the ship with cost debit to concerned units.

	the cabin and other outside the car body).						
	(i) Rope attachment in boom (socket/eye provision).	Physical checking					
	(j) Swing lock.	Functional Check					
	(k) Guards for rotating parts.	Physical checking					
04	Inspection at no load						
	(a) All crane functions - travelling, steering, hoisting, derricking/luffing, slewing, all horns & lights, oil pressure gauge, etc., ammeter and water temperature gauge, etc.	Functional Check	NIL	100%	Purchase Order	Joint Protocol to be signed by the vendor & BHEL inspector or BHEL authorized third party inspection agency.	
	(b) All Lubrication points.						
	(c) Hook Latch provision.	Functional Check	NIL	100%			
	(d) Brakes & Clutches						
05	Load & Over Load Testing						
	(a) Load test to be carried out at 10% over & above the rated capacity. All crane functions-travelling, steering, hoisting, derricking/luffing, slewing, self-erection system to be checked.	Functional Check	Required load-to be arranged by manufacturer	100%	Purchase Order	Joint Protocol to be signed by the vendor & BHEL inspector or BHEL authorized third party inspection agency.	
	(b) Over-load test to be carried out at 25% over & above the rated capacity.						
06	Bought out items						
	(a) Engine						
	(b) Hook Blocks						
	(c) Wire ropes	Verification	NIL	100%	Purchase Order	Manufacturer's test certificates and correlation with crane serial number.	
	(d) Hydraulic Pumps & Motors						
	(e) Track Shoes						

07	Boom & Jib						
	(a) Material Specifications	Verification	NIL	100%	Vendor's records		
	(b) Welding Procedure	Verification	NIL	100%	Vendor's records		
	(c) Record of non-destructive testing of welding i.e. Dye penetrant testing, MPI/UTI, etc.	Verification of NDT records	NIL	100%	Vendor's records		
	(d) Checking of alignment w.r.t. tolerance limits	Verification of records	NIL	100%	Vendor's records		
08	Crane documentation i.e. O&M manual, spare parts manual, bought out items manuals, etc.	Verification	NIL	100%	Purchase Order		

Note: Vendor to submit Quality plan during detail engineering stage including the above points for BHEL approval.

ANNEXURE–IV (PART OF PREQUALIFICATION CRITERIA)**DETAILS OF SUPPLIES MADE FOR THE LAST FIVE YEAR PERIOD**

Sl. No	Make of Crane	Model	Capacity (MT)	Purchaser's Details			Purchase Order No. & date	Date of Commissioning	Present location	Complete supporting documents (attached)
				Name	Address	Phone, Fax & email				
1										Yes/No
2										Yes/No
3										Yes/No
4										Yes/No
5										Yes/No

Note:

1. Contact details of Purchaser shall be furnished correctly by the bidder. If it is found that contact details furnished is not correct, then BHEL reserves the right to reject the submitted bid.
2. Supporting documents to be attached are Purchase Order and Commissioning Certificate/ Performance certificates
3. All the documents should be in English only

SIGNATURE & STAMP OF MANUFACTURE

ANNEXURE-V**MAKE OF MAJOR COMPONENTS OF THE QUOTED CRANE**

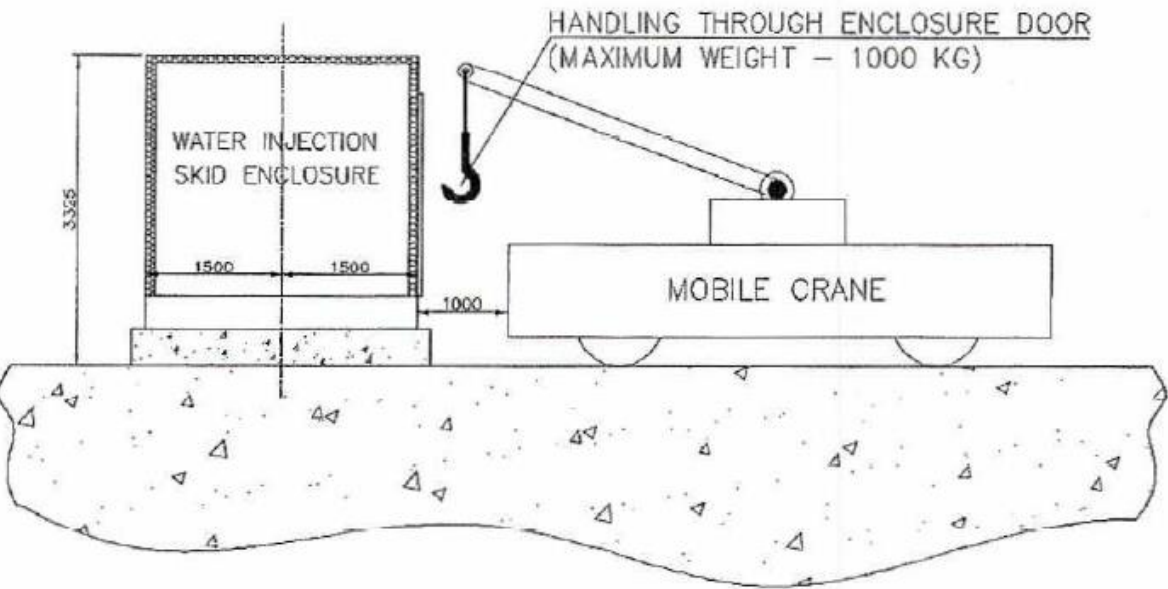
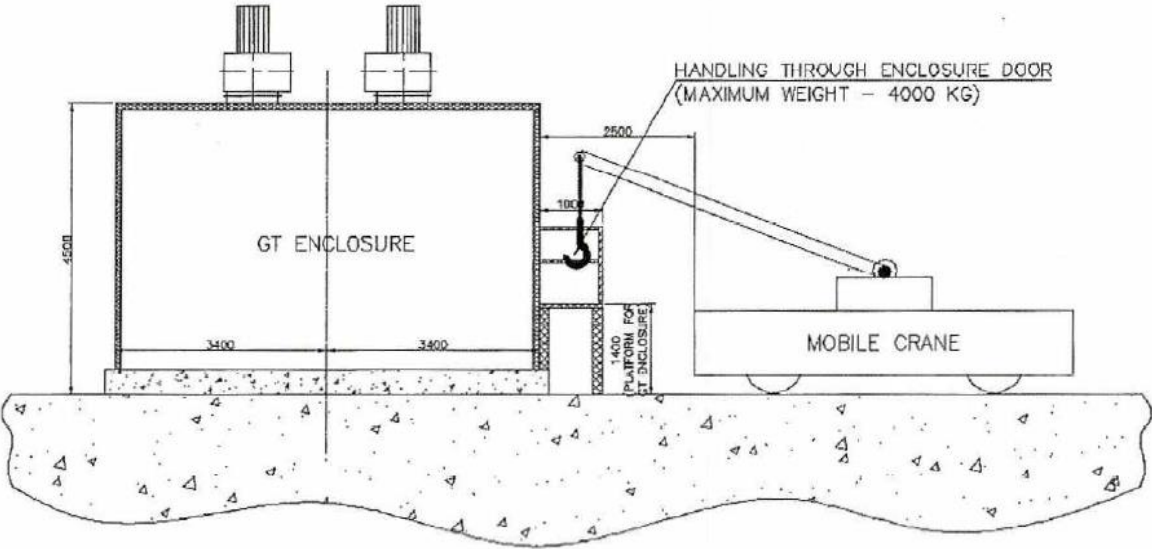
Crane Capacity & Model: - _____ (pls specify)

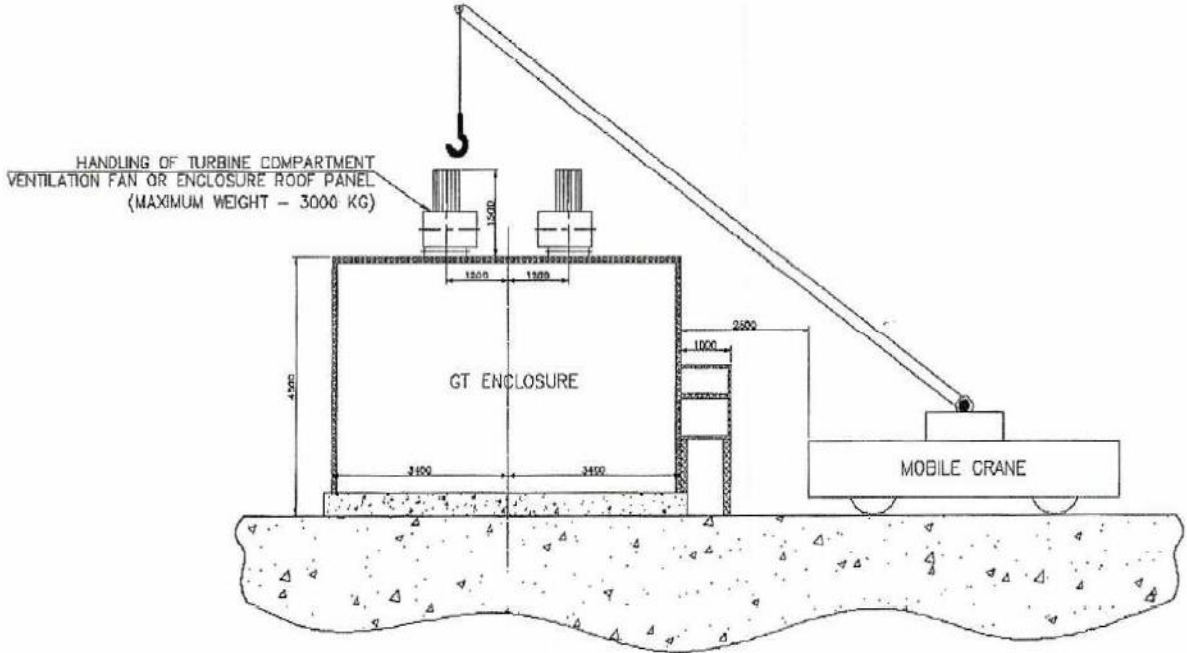
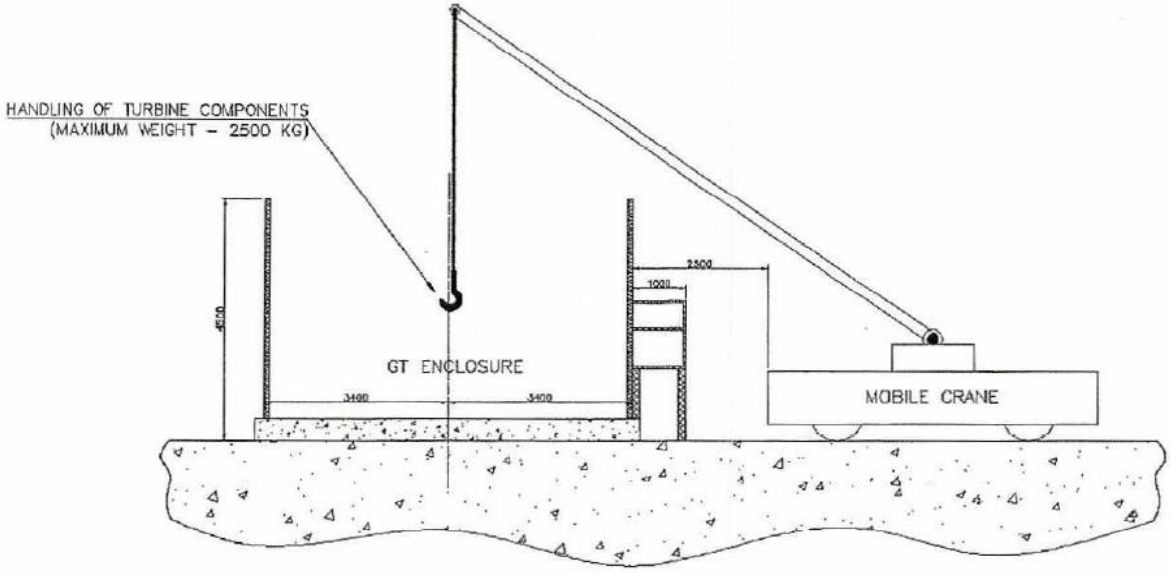
Sl. No.	Name of the Component	BHEL preferred Make of Components (For Sl. nos. 02 to 10)	Bidder's Offer - Specifically mention the name of the supplier with detail address.	Remarks if any
1	ENGINE	Cummins / Caterpillar/ Volvo/ Daimler Chrysler / HINO (MANDATORY MAKES)		AUTHORISED SERVICE AGENCY OF ENGINE MANUFACTURER IN INDIA MAY BE INDICATED.
2	MAIN PUMP OF HYDRAULIC SYSTEM.	From supplier of repute.		
3	ALL OTHER PUMPS IN THE HYDRAULIC SYSTEM.	From supplier of repute.		
4	ALL MOTORS USED IN HYDRAULIC SYSTEM (TRAVEL MOTOR / SWING MOTOR)	From supplier of repute.		
5	BEARINGS INCLUDING SLEW BEARING.	From supplier of repute.		
6	WINCH MOTOR	From supplier of repute.		
7	WINCH	From supplier of repute.		
8	WIRE ROPES.	From supplier of repute.		
9	MAIN BOOM AND LACING PIPES.	From supplier of repute.		
10	STEEL OF BASIC BODY OF THE CRANE (i.e. CARBODY, CABIN, Boom, Jib ETC.)	From supplier of repute.		

ANNEXURE-VI

In addition to the above specification, the crane should be capable to lift the load as per following drawings:

Vendor confirmation



 HANDLING OF TURBINE COMPARTMENT VENTILATION FAN OR ENCLOSURE ROOF PANEL (MAXIMUM WEIGHT - 3000 KG) GT ENCLOSURE MOBILE CRANE Dimensions: 1500, 1500, 2500, 1000, 3400, 3400, 4500	
 HANDLING OF TURBINE COMPONENTS (MAXIMUM WEIGHT - 2500 KG) GT ENCLOSURE MOBILE CRANE Dimensions: 4500, 3400, 3400, 2300, 1000	