

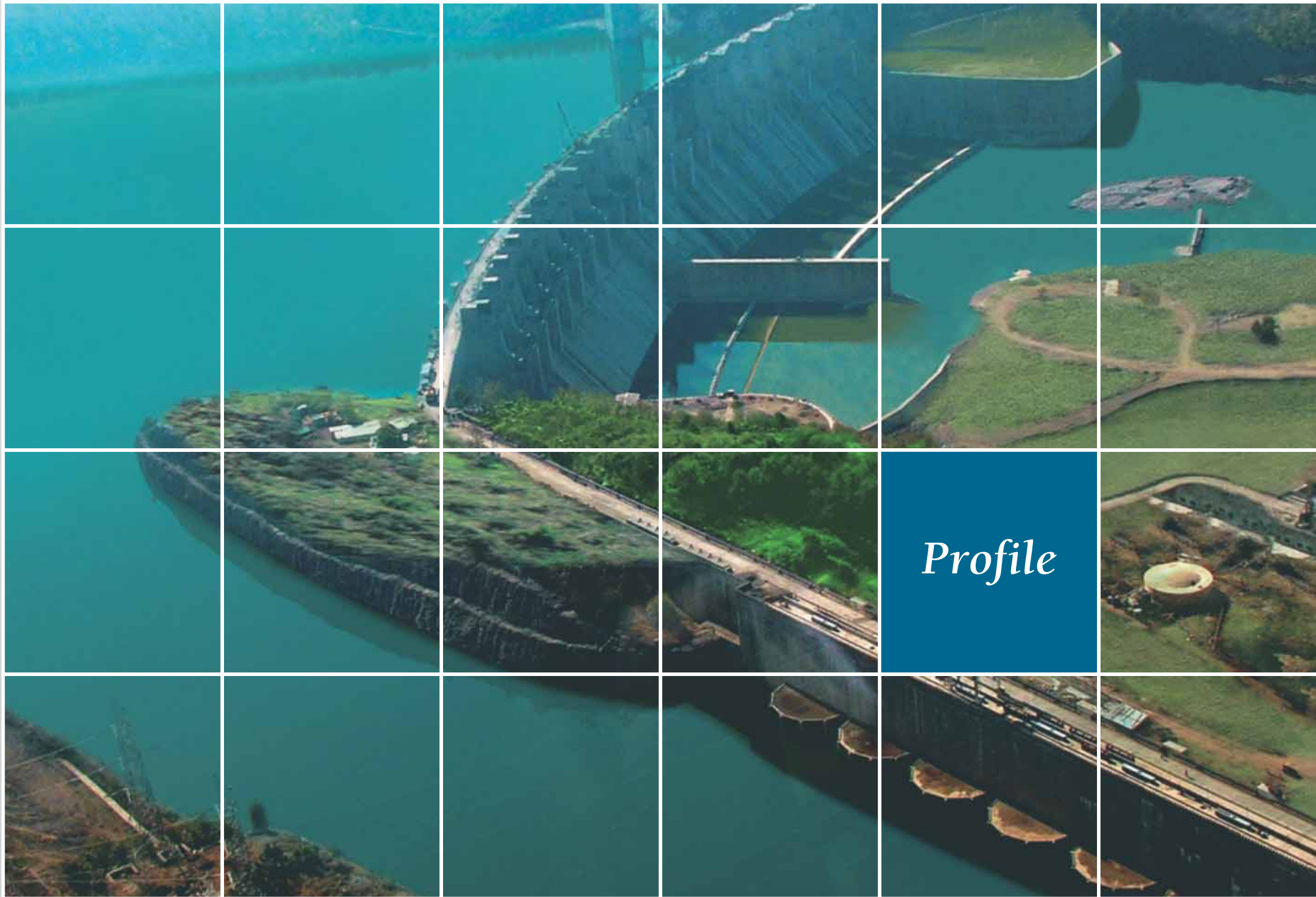


An Introduction to **Heavy Engineering Workshop** (A Unit of Jaiprakash Associates Limited)

World Class Designer & Manufacturer of:

- Hydro-mechanical equipment
- Cement Plant equipments
- Bulk Material Handling equipments (Stackers & Reclaimers)
- Mass Transfer equipment like Belt Conveyors & Cranes etc.
- Railway Steel Bridges, Rail-over bridges (ROBs)
- Pressure Vessel/ Process equipment
- Structurals for Boiler & Power Plant, Coal Handling Plant Structures, Cement Plant Structures etc.
- Turbine Runners and accessories (Repairing & HVOF Coating)





Profile

Jaiprakash Associates Limited (JAL) is the flagship company of the Jaypee Group and an acknowledged leader in the construction of multi-purpose River Valley and Hydro Power Projects on turnkey basis. The Company has consolidated its manufacturing strength by establishing **Heavy Engineering Workshop (HEW) at Rewa (M.P.)**, in the heart of India's Cement belt. Established in November 2002, with **technological co-operation from Harza Engineering International, L.P., Chicago (USA)** and Steward Machines Company, Birmingham, Alabama (USA), this state-of-the-art workshop is equipped with sophisticated Machine Tools and infrastructural facilities to manufacture Heavy Equipment and Technological Structures to exacting International quality Standards. HEW has entered into strategic business alliance with **PHB Weserhütte, S.A. Spain** for Stackers, Reclaimers, Strip Loaders and articulated Boom Cranes. HEW's engineering office at Rewa (M.P.) manned by experienced professionals in computerized environment is fully backed by **Jaypee Group's modern Software Development Center situated near New Delhi**. Well qualified and experienced QC engineers monitor quality at every stage of manufacturing right from procurement of material/bought out components to the end products aided with NDT/DT facilities through well documented QA system. HEW has the unique distinction of having some of the most demanding professional associations like Lahmeyer International, a reputed international company in Hydro Power sector. PHB Spain, L&T, Humboldt Wedag etc.

Introduction

HEW

HEW, as the Engineering & Manufacturing wing of JAL, is a key player in various Mega Hydro-Electric Power Projects in undertaking Hydro-mechanical works on turnkey basis, like those carried out for **Vishnuprayag (400MW) in Uttranchal and Baglihar (450MW) in J&K, Omkareshwar (520 MW) in M.P.** etc. HEW is expanding its production range to include modern Hydro Turbine runner repair facility. In addition, HEW has developed capability to handle special equipment for capacity enhancement and wide variety of retrofit jobs for **Cement Plants, Captive Power Plants** etc. which include Conveyor Systems, Dome Sheds of up to 100 M diameter, Long span portal arch frames of up to 40 M span, Boiler Supporting Structures, Steam ducting, EOT/HOT & Grab Cranes, etc. HEW has also completed a bench mark for manufacturing **Pressure Vessel/Process Equipment** under ASME "U" Stamp Certification. **HEW has been registered in the approved list of RDSO for fabrication and supply of Riveted and Welded Steel Girders and has exported an open web type of steel bridge to Sri Lanka Railways. It has also received "5 Star rating" and "Sword of Honour" for consecutive 3 years by British Safety Council (BSC), UK.**



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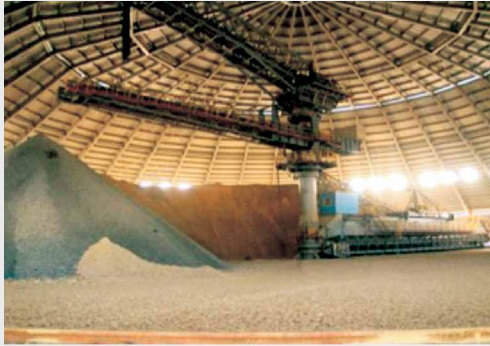
Products

Kiln Shell Section

Product Range



Linear Stacker & Reclaimer



Circular Stacker Reclaimer



Portal Reclaimer



Bucket Wheel Stacker & Reclaimer



100 MW Pelton Wheel Runner



Raw Mill Housings



Open Web Type Bridge Girder for Sri Lanka Railways



Pressure Vessel (Regenerator Column)



Rail Over Bridge Steel Girder



Coal Hopper



Grab Crane



Impeller Shaft

Product Range



Acc Duct for CPP Plant



Impeller Fan



Fixed Wheel Gate



Bonneted Emergency Gate



Radial Gate



Roller Journal Assly for Coal Pulverizer



Circular Domeshed



Heavy Engg Structure for Power Plant



HVOF Coating



Belt Conveyor System



Preheater Cyscole



Protection Bridge

Product Range



Intake Trash Racks



Stacker Central Column



Reclaimer Bridge



Hoist Support Structure (VHEP)



Power Plant Structure



Lime Stone Slewing & Luffing Type Stacker with Tiper Car



Portal Reclaimer-Exported to Saudi Arabia



Rope Drum for EOT Crane



Hoist Supporting Structure



Diaphragm Structure



EOT Crane



Pressure Vessel (Stripper)



Facilities

Manufacturing Facilities

HEW

STRUCTURALS MACHINES

3-Roll Plate Bending Machine, "Thyssen-Wagner"/Germany	Capable of cold bending 90mm thick plates x 3.1m wide (max.)
4-Roll Plate Bending Machine "C J Hosung"/Korea	Capable of cold bending 25mm thick plates x 3.0m wide (max.)
7-Roll Plate Straightening Machine, "SKET"/Germany	Capacity upto 28mm thick x 3.0m wide plates
CNC Plasma Profile Cutting Machine, "Messers"/China	Up to 200 mm thick x 18.5m long Bed
'H' Beam Manufacturing line from CHINA	2000 -2200 mm deep built-up beams with automatic welding & Straightening facility
Hydraulic Press & Press Brake 'ISGEC'/India	4,000 KN capacity.
Hydraulic Press, Ex-Vishnuprayag HEP site, Assembled in-house	10,000 KN Capacity
PUG Cutting Machine ESAB/ADOR make with Guide Rails	Standard make Qty: 30 Nos



Welding Fume Extractor Hood



4 Roll Plate Bending Machine



Hydraulic Press & Press Brake



7-Roll Plate Straightening M/C



CNC Plasma Profile Cutting Machine



3 Roll Plate Bending Machine



H-Beam Assembler Line



Column-Boom SAW M/C

State-of-art Machining



MACHINE TOOLS

CNC Vertical Boring Machine, 'UMARO'/Romania	Table Dia 4000 mm & accommodation Dia 5300 x 2700 mm Turning Ht.
CNC Horizontal Boring Machine "JURAISTI"/Spain (Floor Type)	Spindle Dia 160 mm, Travel: 10600 x 3600 x 1700 mm
5-Axis CNC Milling Machine, "JURAISTI"/Spain (Table Type)	Travelling Column type Milling Machine including Supporting Digital Equipment. (X – 3800 , Y - 1800 , Z – 1120, W – 450) mm
CNC Milling Machine Universal "MECOFF"/Italy	Longitudinal Travel: 4000 mm, Vertical Travel: 1500 mm
Horizontal Boring Machine "SCHARMANN"/Germany (Floor type)	Spindle Dia 125/225 mm, Indexable Table with Universal Milling Head, Travel 5500 x 2900 x 1600 mm
Horizontal Boring Machine "UNION"/Germany	Spindle Dia 125mm with Rotary Table 1400 x 1600 mm
Vertical Boring Machine "FRORIEP"/Germany	Table Dia 3000 mm & Job accommodation Dia 3300 x 2700 mm Turning Ht & Grinding attachment.
Single Column Plano Miller "WALDRICH SIEGEN"/Germany	Bed length 20500 mm, Sliding Table size 9000 x 2000 mm, & Vertical Travel 1500 mm
Double Column Plano Miller "SHARDA"/India	Bed length 18000 mm, Sliding Table 10300 x 2060 mm & Vertical Travel 1650 mm
Runner Coating facility by Robot "TAFA"/USA	6600 x 175 with JP 5000 Gun
Universal Drilling Machine 'VOM' / Czech Portable type – 03 Nos.	Drilling size upto 56 mm Dia
Radial Arm Drilling Machine 'CSPEL'/Hungary	Max. Drill size 120 mm Dia



CNC Horizontal Boring Machine



Universal Milling Machine



Double Column Plano Miller



5-Axis CNC Milling Machine



Portable Universal Radial Drilling



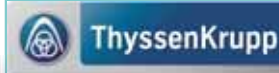
CNC Vertical Boring "Umaro"



Horizontal Boring "Scharmman"



Vertical Boring Machine



S. K. Samanta & Co. (P) Ltd.
An ISO 9001:2008 Company



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CLIENTELE

EnergO Engineering Projects Ltd
FLSmidth India Projects
Ircon International Ltd.
KHD Humboldt Wedag
Larsen & Tourbo
Loesche India
Heidelberg Cement India Ltd.
NHDC Ltd.
Gebr Pfeiffer India Pvt. Ltd.
PHB Weserhutte
Prism Cement Ltd.
Tenova

Thyssen Krupp Industries India'
Ultratech Cement Ltd.
Dalmia Cement
Thermax Babcock &
Wilcox Energy Solutions
JSW
Primetals Technologies India
Private Limited
S K Samanta & Co.
DVC (Damodar Valley Corporation)
DGQA (Directorate General
Quality Assurance)





INSPECTION & TESTING FACILITIES		
Universal Tensile Testing Machine "Fine Testing Machine" make	1000 KN capacity	1 No.
Universal Impact Testing Machine	300 Joules (max.) 0° to -20°C temp.	1 No.
Hardness Testing Machine	Digital type	1 No.
Mobile X-Ray Testing machine "AGFA NDT"/Germany	45 mm thick in Steel: large size LCD Display with Digital Control	1 No.
Digital Ultrasonic Testing machine, "AGFA NDT" / Germany	2.25 MHz, Angle Beam, Transducers 45°, 60°, 70°, Finger Tip probes 10/13mm	2 Nos.
Magnetic Particle/Dye Penetration Testing facilities**	As per ASNT standards	

** : We also have Spectrometer machine used for rapid analysis to define chemical composition of metallic samples, installed at our sister concern Jaypee Hitech Casting Centre



Shot Blasting Chamber



Universal Testing Machine



UT Machine



CNC Robot for HVOF Coating

HEAT TREATMENT FACILITIES

Oil-Fired Stress Relieving - Bogie Herth type "WESMAN ENGG' Make*	30t capacity Bogie, Furnace size 3.5m x 3.5m x 12.0m long : Temp. controlled upto 700oC with graphical record of temperature versus time.
Local Stress-Relieving facility (Electrical Coil type)	Suitable for Cement plant Equipment components, repaired by welding, where overall stress-relieving is not necessary.

SURFACE PREPARATION & PAINTING FACILITIES

Blasting with various materials:(Shot Blasting)- Trolley mounted Automatic	15 M Long x 6 m wide x 6 M deep (Mec shot make)	1 No.
Manual Shot Blasting machines		2 Nos.
Airless spray guns	Jaguar	02 Nos.
Air Spray guns	Standard	20 Nos.

Certificates

notice of Director General/SS, RSDO, Lucknow. You are liable to be dropped from the approved list if your product is found unsatisfactory at any stage of fabrication and inspection or in any other situation as mentioned in Para 3.1.3.2.3.4.8 of 'Guidelines for Registration and Quality Audit of Variables in Bridge & Structures Drawings' available on RSDO Website <http://www.rsdoinformation.gov.in>

3. This continuation in the approved list of RSDO will be valid for a period of five years, ending on last day of the June, 2024.

4. The further continuation in the approved list of RSDO will be subject to Quality Audit which generally will be conducted during last three months of the validity. However, if special condition warrants, Quality Audit may be conducted earlier also.

5. It is the responsibility of the firm to facilitate the RSDO Team for conducting Quality Audit as & when required.

6. The continuity of this letter after 30.11.2019 will be subject to compliance of new ITR as per ISD document no. SS-G4.3.3.2 (Version 4.0).

Please acknowledge receipt of the letter.


(Jyoti Kumar)
Joint Director B&S/2
For Director General/SS

Copy forwarded for information and necessary action to

1. Chief Bridge Engineer

2. Central Railway, Mumbai-400 001.

3. Eastern Railway, Patna Town, Kolkata-726 003

4. East Central Railway, Hapur-204 101.

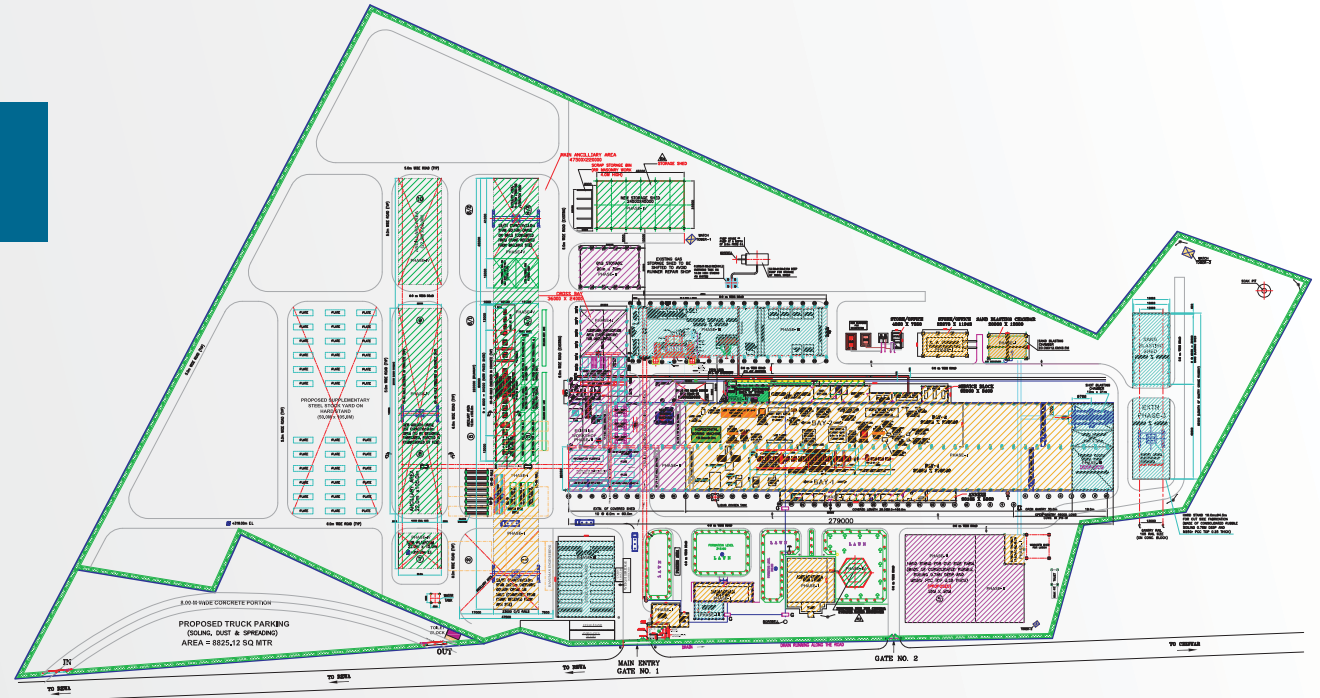
5. East Coast Railway, Bhubaneswar-751 016.

S.No.	Nonmanufacture and details of the items / items(s)	M.P.C.	Specification
<p align="center">List of item (s) : As per Annexure attached</p>			
No. of items for which registered :	02 Items (Two Items)		
Monetary limit :	Rs. 98 Crores (Ninety Eight Crores and 00 Lakhs only)		
Grading of the Supplier :	I		
Slower concerns :	-		
This Certificate is valid up to :	18-07-2011		
<p align="right">  (Sd/-) Secy CONTROLLER QA/QS, KANPUR Approving Authority on behalf of DOQA Ministry of Defence </p>			
Date: 18-07-2010			

This Certificate is issued subject to conditions indicated overleaf.

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Logistics & Area



Master Plan of Workshop

LOCATION	:	Jaypee Nagar, Rewa, M.P., India
NEAREST DOMESTIC AIRPORT	:	Khajuraho (170 KM)
	:	Allahabad (140 Km)
	:	Jabalpur (225 Km)
NEAREST INTERNATIONAL AIRPORT	:	New Delhi
	:	Varanasi (240 KM)
NEAREST RAILWAY STATION	:	Satna (50 Km)
	:	Rewa (14 Km) from workshop site.
NEAREST TOWN	:	Rewa, a District Centre (14 Km)
TOTAL LAND AREA	:	90880Sq.m.
SHOP FLOOR AREA	:	38325Sq.m.
• Covered Area	:	17030Sq.m
• Open Gantry	:	12020Sq.m
AUXILARY & SUPPORT SERVICES	:	5800 Sq.m



"We aim to achieve perfection in everything we undertake and we have a commitment to excel. It is the determination to transform every challenge into opportunity, to seize every opportunity to ensure growth and to grow with a humane face that drives us."

Jaiprakash Gaur
(Founder Chairman)



Workshop :

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Head Office :

Sector – 128, Noida-201304, Uttar Pradesh, India
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Email: hew.marketing@jalindia.co.in