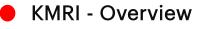


KMRI: A LEADING CASTINGS MANUFACTURER

Company Profile & Overview October, 2017





Business Strategy & Financial Information

Product Portfolio & Certifications

Product Development & Quality Metrics

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KMRI - Overview

Quality and Customer Satisfaction Focus are the Drivers of Our Success

Kharagpur Metal Reforming Industries Pvt. Ltd.

- Has emerged as a leading manufacturer of various types of cast-steel, S.G. iron, cast-iron and fabricated mechanical spare parts & components
- Strategic Suppliers for Indian Railways Locomotive, Railway Bogies, Railway Coaches, Automotive & Steel Plants, General Engineering, Bearing Companies, Earth Moving Equipment and Other Special Purpose sectors

A LEADING CASTINGS

MANUFACTURER

Several Strategic Vendor Relationships with Large OEMs



OUR VALUES

Others see things as they are and say "Why" – but we dream of things that never were and ask "Why not?"

-GB Shaw



MISSION

Manufacture high-quality steel-castings, cast-steel motor shell, industrial spare-parts and other engineering products matching international quality standards at cost-effective prices

At KMRI, we are proud of a successful history of executing on our ambitious vision of delivering quality castings



OUR SCALE OF OPERATIONS

Situated in Kolkata West Bengal, an eastern-Indian state where skilled man-power availability is abundant

LOCATION OF UNITS

FOUNDRY: UNIT-I

Kharagpur Metal Reforming Industries Pvt. Ltd. (CAPTIVE FOUNDRY) (Registered Office) Koushallya, Kharagpur, District - Paschim Midnapore P.S. –Kharagpur, Pin Code –721301, West Bengal, 03222-255340 | 03222-255589 Website: www.kgpmetal.com

MACHINE SHOP: UNIT-II

Kharagpur Metal Reforming Industries Pvt. Ltd.(CONVENTIONAL MACHINE SHOP) AndulRoad,Thanamakua, P.O. –D.S.Lane,District –Howrah, P.S.–Sankrail, Pin Code 711109, West Bengal 033-2688 6283 | 033-2688 5084 | 033-2688 5714 | 033-2688 7452

MACHINE SHOP: UNIT-III

Kharagpur Metal Reforming Industries Pvt. Ltd. (CNC MACHINE SHOP & FABRICATION UNIT) ChadmariRoad, P.O.– D.S.Lane,District –Howrah, P.S.–Jagacha, Pin Code –711109, West Bengal

FOUNDRY: UNIT-IV

Kharagpur Metal Reforming Industries Pvt. Ltd. (HI-TECH CAPTIVE FOUNDRY) Khatranga, Kharagpur, District –PaschimMidnapore P.S. –Kharagpur, Pin Code –72, West Bengal

MACHINE SHOP: UNIT-V

Kharagpur Metal Reforming Industries Pvt. Ltd. (CNC MACHINE SHOP) JalanComplex,District –Howrah, P.S.-Jagacha,Pin Code –711109, West Bengal

OUR GLOBAL CUSTOMER-BASE



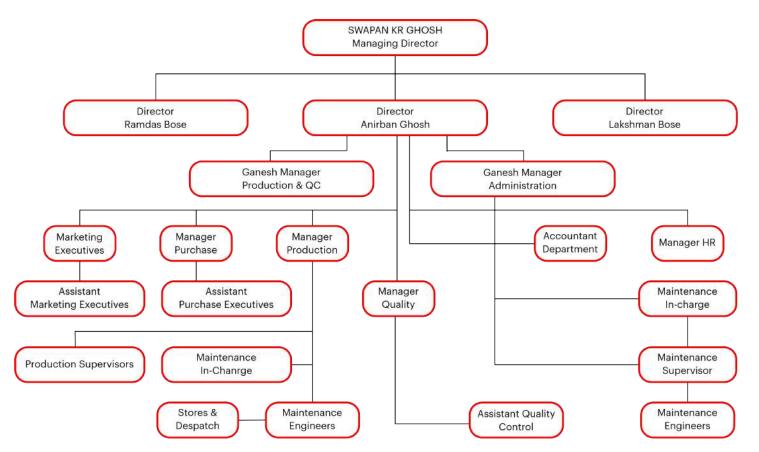


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ORGANIZATION STRUCTURE

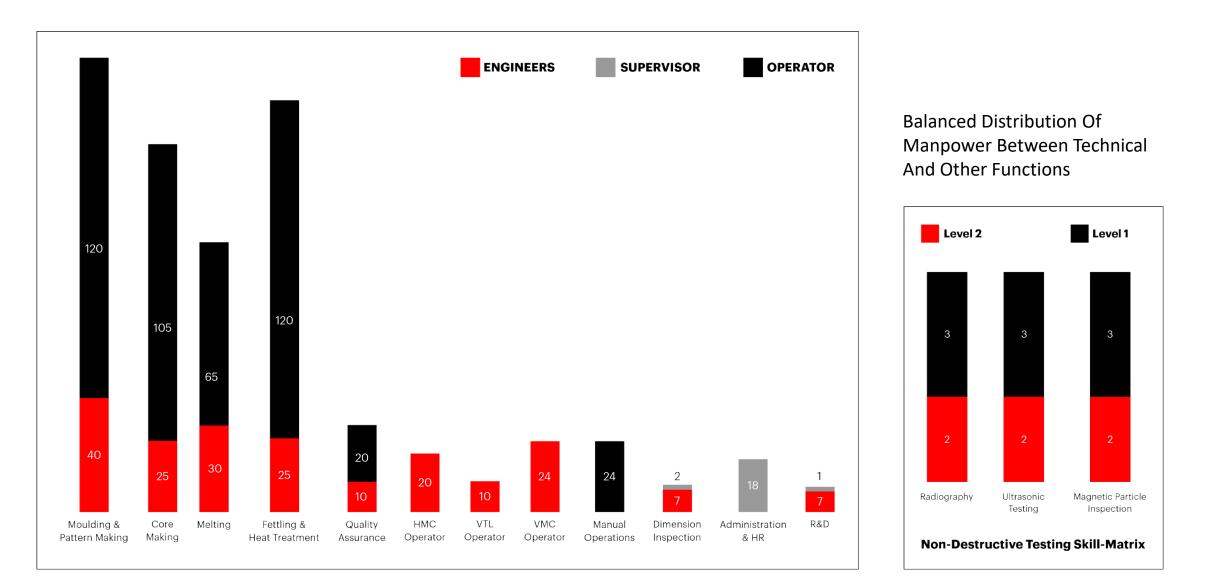
KHARAGPUR METAL REFORMING INDUSTRIES PRIVATE LIMITED ORGANIZATIONAL CHART

UNIT ADDRESS (DAG-4901, 4900, K, 740, 469, 1654, J.L20, DONJUR, KOLORAH, HOWRAH, WEST BENGAL



- KMRI is a professionally managed organization with firm quality policy and customer-centric approach
- Total Employees: 910
- Our organization structure focuses on driving overall process efficiency that is the hallmark of our company
- · We strive to ensure full accountability and ownership

KMRI SKILL MATRIX

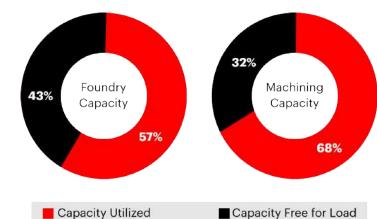




MANUFACTURING CAPABILITY HIGHLIGHTS

- Monthly Capacity: 2000 MT which include New No-Back Line at Existing Facility/ Addition of 2 Nos. Heat Treatment Furnace
- In-house Captive Steel & S.G Iron Foundry: 5kg-to-9,000kg single-piece cast component manufacturing capability
- Automated Green Sand Moulding-Line and No-Bake Moulding-Line operational
- World-Class Heat Treatment Facility: for annealing, tempering and hardening processes
- Fully-equipped In-House Testing facility inc. sand, physical, chemical, NDT, MPI, DP, Radiography
- All CNC-Machining done in-house with CMM/ ZEISS Checking
- RDSO-Approved CLASS-A Foundry as per IS-12117:1996 guidelines

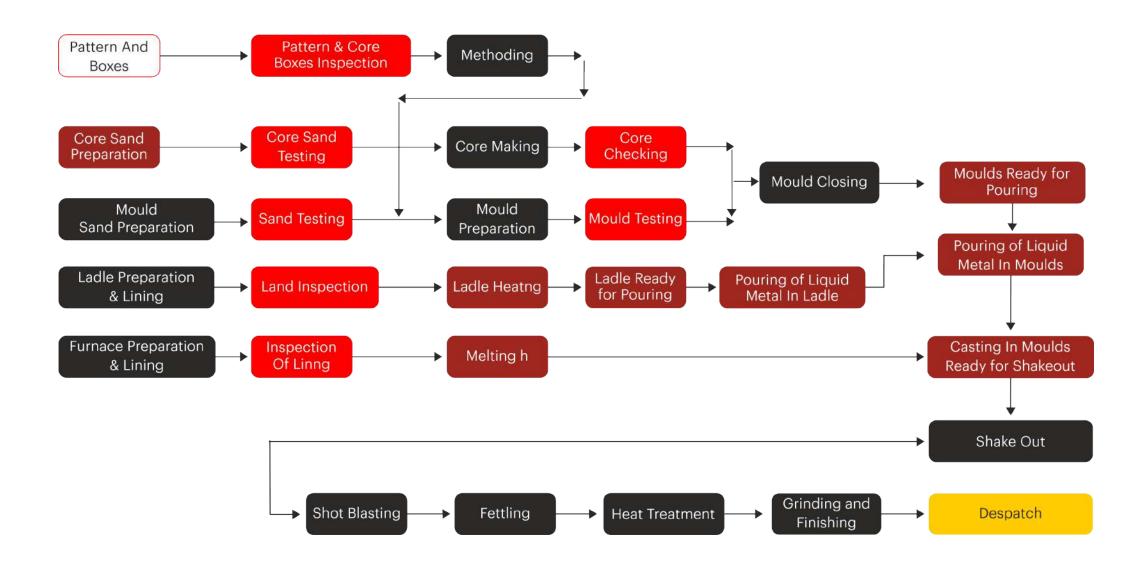
SIGNIFICANT GROWTH IN AVAILABLE FOUNDRY & MACHINING CAPACITY



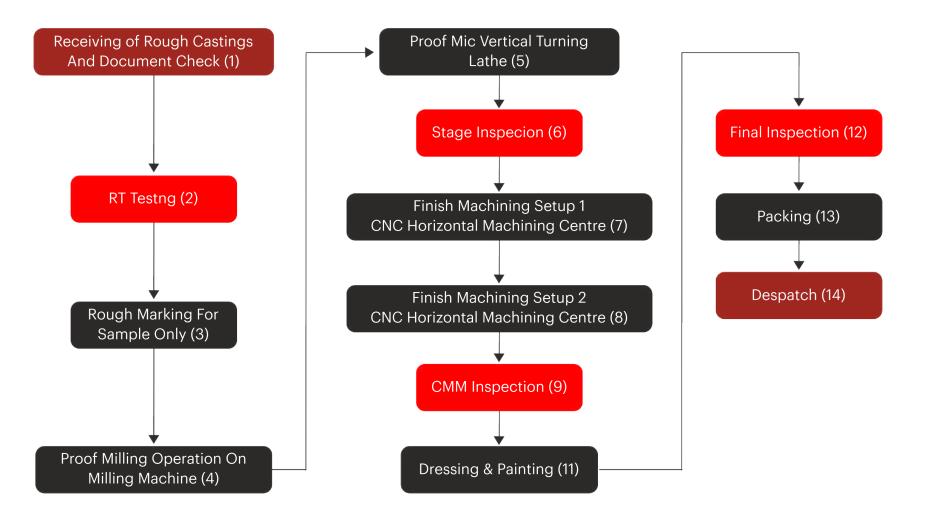
Utilization : Capacity of 2,000 MT per Month

PROCESS OVERVIEW

Foundry Process Flow-Chart



PROCESS OVERVIEW



CERTIFICATION HIGHLIGHTS

- Approved supplier for all locomotive manufacturers in India e.g. CLW, DLW, DMW, ALSTOM
- Approved supplier for coach factories in India e.g. ICF, RCF
- Approved supplier for FAG, NBC, TIMKEN, SKF
- Approved supplier for BHEL, CG Land other traction motor manufacturers
- Approved suppliers for bogie & wagon, Couplings components for RDSO, Faiveley, Webtech
- Exporting railways components to USA and Canada for General Motors, Caterpillar
- Certified as ISO:9001:2015 from British Standard
- Certified as ISO:14001:2015 from British Standard
- Certified as OHSAS:18001:1997 from British Standard

bsi. Certificate of Registration	bsi. Certificate of Registration	bsi.	QUALITY, EHS, OHS CERTIFICATES
QUALITY MANAGEMENT SYSTEM - ISO 9001-2008 The is to certify the: Phragain Health Reforming Industries Pol. 28 Control International Phragain Resetting Industries Provide Industries	OCCLIPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM - OHSAS 18001:2007 The wile weekly tea: Volangear Meal Reforming Industries No. 13 No. 14 No.	Certificate of Registration ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001-2004 The is to certify the: Hoargon Head Reforming Industries Ref Lid	AUDIT RESULTS
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FOUNDRY WITH FULLY AUTOMATED POURING & MOULDING LINE (1/2)

Unit-IV: Green-Field No-Brake Foundry Shed & Shop-Floor







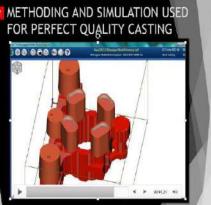




IMF Italy Fully-Automated Moulding Line at Unit-IV (Alpha Set System)

IRUCTION FURNESS





UNIT-IV GREEN-FIELD NO BRAKE FOUNDRY WITH FULLY AUTOMATED MOULDINGLINE (2/2)



Unit-IV Heat Treatment Facility: Hardening, Tempering (5 MT –2Nos.), Auto-Quenching (within 30 seconds)



WORLD-CLASS CNC MACHINING FACILITY

Horizontal Machining Centers



MACHINE LOADING AND PROGRAMMING IN CAM FOR ACCURATE MACHINING

Measuring Machines (Zeiss)



CNC Turning Centers







ROBUST QUALITY MANAGEMENT PRACTICES WITH

BEST-IN-CLASS IN-HOUSE TESTING INFRASTRUCTURE



Sand Testing Laboratory





Spectro/ Chemical Testing Laboratory



Physical Testing Laboratory (Impact, Tensile)





Non-Destructive Testing (Magnetic Particle, Ultrasonic)





Radiography Testing

Micro-Graphy Testing Facility

FEEDBACK FROM OUR VALUED CUSTOMERS



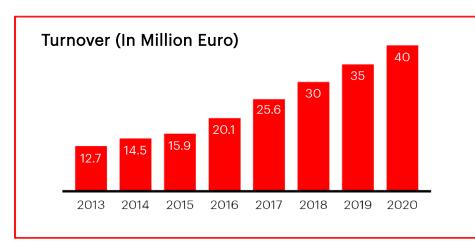
BUSINESS STRATEGY

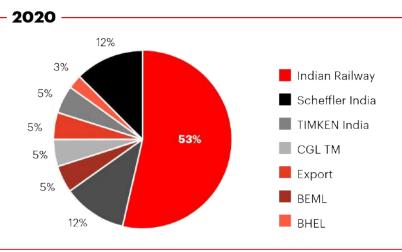
Growth & Customer Satisfaction Focus

• Well Defined Investment Plan to Increase Manufacturing Capacity



BE A GLOBALLY RECOGNIZED SOURCE OF CASTING PRODUCTS & LEADING SUPPLIER OF PRECISION ENGINEERING REQUIREMENTS



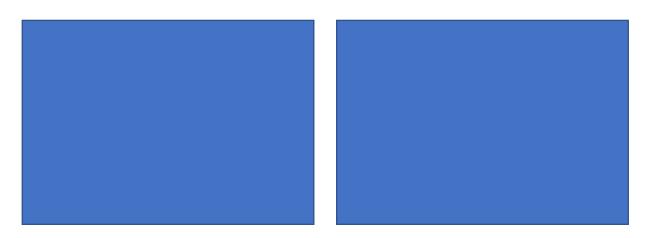


OUR STRATEGIC FOCUS AREAS

- Drive growth through consistent customer satisfaction
- Expand foundry capacity
- Focus on quality
- Invest in manpower development

OUR FUTURE INVESTMENT PLAN

- Proposed investment of €20.3 Million in 2021-22 for foundry capacity expansion
- New unit for Machining to start production by December 2020 –total investment of €6.9 Million
- New facility will have fully loaded machine-shop



MORDEN MACHINE SHOP





MAZAK Turning Center (2 Nos)





CNC Vertical Turning Lathe - 1200 RL - 3 Nos



CNC Coordinate Measuring Machine Accura-II Zeiss Germany- 2 Nos



RELEVANT PRODUCT PORTFOLIO & QUALITY CERTIFICATIONS



ONLY FOUNDRY CERTIFIED BY

INDIAN RAILWAYS (RDSO & CLW)

- India has 3rd-largest railway network in the world with 650 electric locomotives produced annually
- Only approved foundry & company for Electric Locomotive Components in India by Directorate of Electric Locomotive (RDSO Lucknow) and Chittaranjan Locomotive Work (CLW)

LARGE RANGE OF COMPONENTS CERTIFIED:

- Canon Box & components
- Gear Case
- Stator cum Magnet Frame & components
- Axle Boxes
- Pivot Assembly
- Motor Frame Components
- Traction Motor Holders
- Rotor End Ring
- Wheel Set Guide (Link Match)
- High Capacity Side Buffer Assembly
- Couplers (Grade E)
- Knuckles (Grade E) for both Goods (WAG-9, WAG-9 H) and Passenger Locomotive (WAP-7/ WAP-5)

INDIAN RAILWAYS APPROVAL CERTIFICATES

FOR TRACTION MOTOR PARTS

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them Fax 19.5322.243500 email issuecht@ymail.com mail issuecht@ymail.com No. QAM/Regn/Kharagpur Metal/K Dated: 18.01.2017 Fax: 0.322.2435500 fax: Dated: 18.01.2017 Fax: 0.322.2635580, 032-2687452, Email: kgmetal@ysal.com M/s Kharagpur Metal Reforming Industries Pvt. Ltd., PEEH REGISTRATION* Sub: Fresh registration of firm for inclusion in the "Vendor Directory" as per Spec. IS 12117:1996. Ref: On line application with Vendor reference ID No. QAM2016/7374 da 0.9.07.2016. Vide online application under reference above, firm had applied for FRESH REGUSTRATION. After satisfactory processing, Competent Authority has approved the inclusion the below mentioned firm in the "Vendor Directory" for the items given below: 1. Firm Name & Address: My & Kharagpur Metal Andul Road, Thanamakuu, My & Kharagpur Zueal, Dist Water Midnapore-721 1. 1. For bare of visit 12.11.2016 & 21.11.2016. 2. Item Secrificion Its 12117.196 3. Capacity: 18000.00 MTPA 4. Date/ Dates of visit: 12.1.1.2016 & 21.11.2016. 5. Approved Initials: KM	theme Park 1:0322:031030 (speech of park	रेसी/Tele	: 91-0522-2451200 (98	BX) Dates	अनुसं	ৱন প্রানিকল্যে और	मानक संगठन
Ware Rave Biology 2012 ware backers Baser Backers No. QAM/Regn/Kharagpur Metal/K Dated: 18.01.2017 Figure 022-255589, 033-2687542, Email: kgnnetal@vanLow Dated: 18.01.2017 M/s Kharagpur Metal Reforming Industries Pvt. Ltd., PRESH REGISTRATION M/s Kharagpur Metal Reforming Industries Pvt. Ltd., PRESH REGISTRATION Sub: Fresh registration of firm for inclusion in the "Vendor Directory" as per Spec. IS 12117:1996. Ref. On line application with Vendor reference ID No. QAM2016/7374 da 09.07.2016. Vide online application under reference above, firm had applied for FRESH REGISTRATION. After satisfactory processing, Competent Authority has approved the inclusive the below mentioned firm in the "Vendor Directory" for the items given below: J. Firm Name & Address: Works Address M/s Kharagpur Metal PO-D S Lane, Howrah.711 109 M/s Kharagpur Metal Works Address M/ms Kharagpur Metal PO-D S Lane, Howrah.711 109 Nest Midnapore.721 1: Nil B PO-Khatranga, P 2. Items for which approved: State Nature Specification State Date Dates of visit: 12.11.2016 & 21.11.2016. Approved Beralls 3. Capacity: 18000.00 MTPA . . 4. Date/Dates of visit: 12.11.2016 & 21.11.201					Governa	nent of India-Mini	stry of Raihuays
email i generationen No. QAM/Regn/Kharagpur Metal/K Dated: 18.01.2017 Fys: 03222-255589, 033-26887452, Email: kggmetal@vsnl.com M/s Kharagpur Metal Reforming Industries Pvt. Ltd., PRESH REGISTRATION' Sub: Presh registration of firm for inclusion in the "Vendor Directory as per Spec. IS 12117:1996. Ref: On line application with Vendor reference ID No. QAM2016/7374 da 09.07.2016. Vide online application under reference above, firm had applied for PRESH REGISTRATION. After satisfactory processing, Competent Authority has approved the inclusion the below mentioned firm in the "Vendor Directory" for the items given below 1. Firm Name & Address: New of the firm Andul Road, Thanamakua, Reforming Industries Pvt. Limited News Midnapore-721 I: 2. Items for which approved SN Eiter Description SN Eiter Description SN Eiter Description SN Eiter Description SN Eiter Description S. Capacity: 18000.00 MTPA 9. Date/Dates of visit: 12.11.2016 & 21.11.2016. 5. Approval Details: Firm RDSO Approved Initials: KM	emil i generologua.com No. QAM/Regn/Kharagpur Metal/K Dated: 18.01.2017 Fg: 03222-255589, 033-26887452, Email: kgmmetal@vsel.com M/s Kharagpur Metal Reforming Industries Pvt. Ltd., PRESH REGISTRATION Sub: Presh registration of firm for inclusion in the "Vendor Directory" as per Spec. 18 12117:1996. Ref. On line application with Vendor reference ID No. QAM2016/7374 dat 09.07.2016. Vide online application under reference above, firm had applied for FRESH REGISTRATION. After satisfactory processing, Competent Authority has approved the inclusion the below mentioned firm in the "Vendor Directory" for the items given below: 1. Firm Name & Address: M/s Kharagpur Metal Reforming industries Pvt. Limited 2. Items for which approved: 9. Di Lane, Howrah-711 109. Khagagpur Local, Distri- King Ognoroved firm for Class 'A' 1. RibSO approved firm for Class 'A' 3. Capacity: 18000.00 MTPA 4. Date/Dates of visit: 12.11.2016 & 21.11.2016. 5. Approval Details: Firm RDSO Approved Initials: KM Alidied Sister NIL Concern/concerns Next Quality Audit due on: 31.01.2018. (1 year from date of this audit) Signature Director/I&L, RDSO, 3. Koilaghta Street, Street Contor/KaL, RDSO, 3. Koilaghta Street,	dan/Fax	: 91-0522-2458500		Researc	h Designs & Standa	rds Organisation
No. QAM/ Regr.Atharagpur Autori /s Fpe: 0322-255589, 033-2687452, Email: kgpmetal@vanLom M/s Kharagpur Metal Reforming Industries Pvt. Ltd., PRESH REGISTRATION' Sub: Fresh registration of firm for inclusion in the "Vendor Directory" as per Spec. IS 12117:1996. Ref. On line application with Vendor reference ID No. QAM2016/7374 da 09.07.2016. Vide online application under reference above, firm had applied for FRESH REGISTRATION. After satisfactory processing, Competent Authority has approved the inclusis the below mentioned firm in the "Vendor Directory" for the items given below:-1 1. Firm Name & Address: Mass of the firm Mys Kharagpur Metal Reforming Industries Pvt. Limited Vide polyce. State: Hem Description Miss Boargour Metal Reforming Industries Pvt. Limited No Rharagproved firm for Class 'A' I: RDSO approved ifm for Class 'A' I: RDSO approved Initials: KM	No. QAM/ Regn Manargun auton/A Fps: 0322-255589, 033-26887452, Email: Egonetal@venl.com M/s Kharaggur Metal Reforming Industries Pvt. Ltd., PRESH REGISTRATION Sub: Presh registration of firm for inclusion in the "Vendor Directory" as per Spec. 18 12117.1996. Ref. On line applications with Vendor reference ID No. QAM2016/7374 dat 09.07.2016. Vide online application under reference above, firm had applied for FRESH ROUSTRATION. After satisfactory processing, Competent Authority has approved the inclusion the below mentioned firm in the "Vendor Directory" for the items given below:- 1. Firm Name & Address: Mane of the firm Office Address Mane of the firm Office Address Mane of the firm Office Address Mane of the firm Metal Andul Road, Thanamakua, M/s Kharaggur Metal Advects PO-D S Lane, Howrah-711 109, Will & Do-Khatranga, PR Khagagpur Local, Distr- West Midnapore-721 14 2. Items for which approved: SN ite Description Drawing Specification 1. RDSO approved firm for Class 'A' IS 12117:199/ 3. Capacity: 18000.00 MTPA 4. Date/Dates of visit: 12.11.2016 & 21.11.2016. 5. Approval Details: Firm RDSO Approved Initials: KM Aliled Sister NIL Concern/concerns Next Quality Audit due on: 31.01.2018. (I year from date of this audit) Firm RDSO Approved Initials: KM Aliled Sister NIL Concern/concerns Sister NIL Concern/concerns Signature Proced Signature Director/I&L, RDSO, 3, Koilaghat Street,	email	: qamech@gmail.com			Later	
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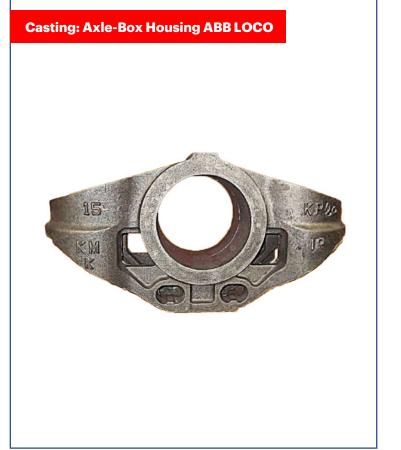
RESERCH DESIGN & STANDARD ORGANISATION MINISTRY OF RAILWAYS File no- EL/1.3.10/3/KMRI / 5 Date: 14.03.2012 CERIFICATE OF APPROVAL OF REGISTRATION IN PART-I CATEGORY Your request for up gradation from Part-II to Part-I source for manufacture & supply of Assembly Components of Traction motor (Stator Chamber, End Frames, Labyrinths) type GFRA 6088 for Electric Locomotives has been considered and approved as per the following details SN 1 Details M/s Kharagpur Metal reforming Industries Pvt. Particulars Name of the Firm Ltd. Howrah 2 Name of the Item registered Assembly Components of Traction motor (Stator Chamber, End Frames, Labyrinths) type 6FRA 6068 for Electric Locomotives. 3 Category of registration Part-I (Regular) Firm's Registered office address M/s Kharagpur Metal reforming Industries Pvt. Ltd., Andul Road, Thanamakua, Howrah-711 109 033-2688-5084,2688-6283 Phone no Fax no 033-2688-7452 Firm's Works address 16, Badal Bose Sarani (Chandmari Road), PO. D.S. Lane, Howrah-711 109 CLW Specn. No. 4TMS 095.059 & 68 8 Governing specification no 9 Governing Drawing no 10 Governing STR no Drawings as per vendor list RDSO STRs Nos.RDSO/2007/EL/STR/021 Rev '1' 10 Governing STR no 11 Validity of registration 10.03.2015 1. The validity as above shall be subject to the following conditions: 1.1. No design change or change in Bill of Material shall be made without the prior approval of RDSO. 1.2. The supply, will meet the requirement of the specification. 1.3. Notwithstanding this approval, vendor is wholly and completely responsible for quality, on line performance, reliability and life of the item/items supplied by him and supply within the deliver period. 1.4. Complete compliance to the conditions given in purchase order of Railway Board/Railways/Production units. 1.5. All future changes in location of firm, equipment, facilities and establishment at your works should be promptly communicated to Electrical Directorate of RDSO. Page 1 of 2

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LOCOMOTIVE BOGIE COMPONENTS









OTHER LOCOMOTIVE COMPONENTS

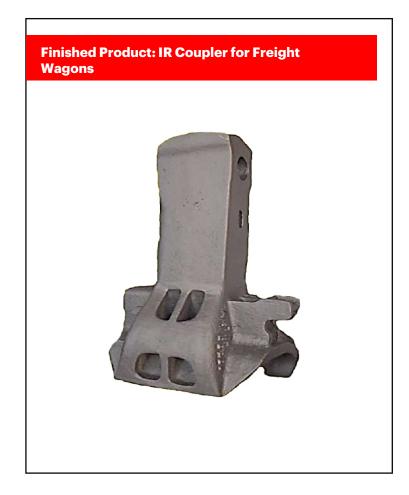
















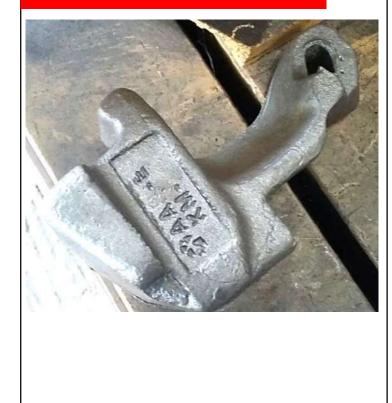
COMPONENTS FOR COUPLER ARRANGEMENT



Finished Product: Wabtec/ Voith KNUCKLE

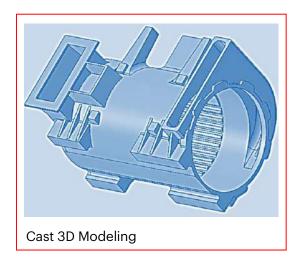


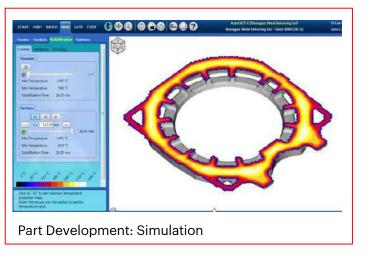
Finished Product: Wabtec/Voith LOCK



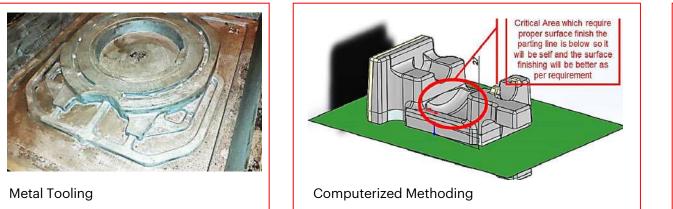
PRODUCT DEVELOPMENT & QUALITY METRICS

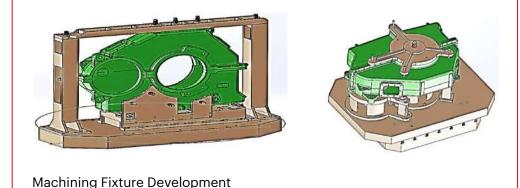
PART DEVELOPMENT: STATISTICS & PROCESS BEST PRACTICES





COMPONENT	DEVELOPMENT CYCLE-TIME	
Bogie Component	3 months	
Canon Box & Suspension Tube	4 months	
Gear Case	5 months	
End Shields	5 months	
Stator Frame	6 months	

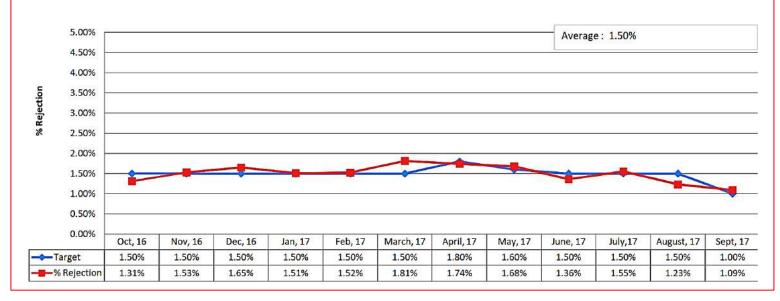




PART QUALITY: STATISTICS & BEST PRACTICES

- Stringent Process Control practices adopted at all levels of manufacturing
- Quality control practices are supported by well equipped laboratory
- Prime Quality of Scrap used: absolutely free from rust, very-low in C, S, P content
- Zircon-based paint used for cores water-based zircon flood-coat paints applied
- Mold Management: proper drying, faster and perfect curing
- De-gassing Liquid Metal: de-gassing agents added, argon-gas purging in ladle
- Shot-blasting casting before and after heat-treatment to ensure smooth finish

Foundry Rejection Trends (in last 12 months)



Flood Coating

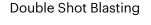
Skin Drying





Argon Purging







THANK YOU

Hen. of Propuls

WE PROVIDE TOTAL SOLUTIONS UNDER ONE-ROOF