New Life to a Valuable 26 Years Old Machine

REFURBISHMENT OF
ESH 20/90
WALKING DRAGLINE

INSTALLATION OF
REHEATING FURNACES
Execution of Foreign Philosophy with Indian Trace
SRB Group is a global integrated engineering and technology solution provider having its presence in India, Russia, CIS & Eastern Europeans countries with businesses in key industries.

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The price of success is hard work, dedication to the job at hand and the determination that whether we win or lose, we have applied the best of ourselves to the task at hand. I congratulate our Principal companies, SRB Team and Associate Partners mainly Mr. Anup Srivastav for their resolute dedication for the task carried out by them in the last quarter.

Today’s rapid change brings both opportunities and risks for any company in Mining, Metallurgy, Railways and Oil & Gas sectors. There are significant challenges to overcome, but the tools, the insights, the technologies, the innovations—both evolutions and revolutions—all combine to make today one of the most promising times for our company.

SRB International was established solely to drive progress in fields of Mining, Metallurgy, Oil & Gas and Railways and inspire the culture of development through innovation. We remain committed to deliver the best of products and services which redefine how efficiency and sustainability can both go hand in hand. We are on course to play a leading role in driving development forward through our Honorable Prime Ministers Make in India initiative and look forward to be real pioneer in science and technology.

The main thrusts of our strategy is strengthening cooperation with Russian and European companies to address priorities of the Mining, Metallurgy, Railway and Oil & Gas sectors in scientific research and development of products and services specifically India oriented. Another focus is about raising awareness about technological advancement made in Russia and Europe and how the same technology can be applied in India in both Public and Private sector.

Our mining division has successfully implemented modernization of ESH 20/90 Walking dragline which was manufactured and supplied by Uralmashplant. Moreover, a high end successful electrical training program of Coal India Limited experts along with SRB mining division experts was carried out in Moscow & Kuzbass, Russia.

Our business expansion plans in Oil & Gas sector has borne fruit as we have been able to bring world class companies Kappa Gi Srl, (Italy); JLA Technology (Netherlands); IOGT LLC (Russia); to India and conducted delegate visits along with technical seminars in different cities of India.

Participation of SRB along with its principle companies in prestigious exhibitions like IREE(Global platform for Railway Technology & Services) & IME has ensured that we remain a company to look forward to when tenders come up in public and private sectors.

Our credo reminds us that our first responsibility is to our customers, and it compels us to deliver on our responsibilities to our beloved country India, principle companies, employees, our communities and our environment.
SRB International has been a part of me since its conception and we have watched it become an international organization with great satisfaction and pride. It is its management and employees who have brought it so far. Energizing the organization continues to be the most important part of my job. We are trying to steer the organization through the goals and opportunities lying ahead of us. We have always pledged performance. Performance has also been the hallmark of the SRB Group. Being street smart and beating the best of Indian companies has created a space for us to become a multi-sectoral Group. Our global footprint has expanded. Earlier we were representing just a couple of companies from Russia but now, the Group presence extends to not only Russia but also CIS and European Countries. Today, we are a global Group that is all about using technology and innovation to empower people everywhere to succeed. It has been an era of innovation and growth, and we feel incredibly fortunate to be a part of it. This is the performance that we pledge to keep up.

We firmly believe that we have been successful in creating an organization where human potential can flourish. Our vision for the company is that it should be a workplace where entrepreneurship can thrive. Our employees have taken to this path which has led SRB Group to be present in multi sectors namely in Mining-Russia, China, India, USA; Metallurgy - Russia, Ukraine, London, Turky, Slovenia; Railway - Russia, Belarus, Ukraine, Turkey; Oil & Gas- Russia, Italy, Netherland; Equipment for Heavy Machine Building Industry - Germany, Romania, Korea, Belarus, Poland, Russia.

We have also succeeded year on year and quarter on quarter because we have always been a purpose driven organization. Employees at SRB Group too, see themselves as working for something much larger and more compelling than profits or even their own advancement. They see their job as helping people everywhere to progress and rise.

These are challenging as well as exciting times. Sitting in Baku, Azerbaijan I can feel the change in attitude of western nations towards India and considering it as their next entry point for their business. The rewards for those who get it right will be enormous. But let us remember, there is no substitute for excellence, there should be zero tolerance of mediocrity and we should never compromise with integrity. When we compete with the best, whether in India or abroad, we not only bat for ourselves, we bat for our country. This is our privilege. But this is also our responsibility.
It was a pleasure meeting with SRB team and reviewing their infrastructure strength and future growth plans. I noted that company SRB Group is taking steps using all resources for making a future in Oil & Gas horizon.

Taking in account of above I would recommend the Oil & Gas Safety Business such as Vapour Recovery Unit (VRU) to be taken as a future growth path by SRB due to government & MOP&NG directives. Also efforts should be made to manufacture or at least assemble the same in India. Similarly the fire & safety shall be given due importance taking in view of same. In the area of valves, the business is very competitive in India, except cases of supply Double Block Bleed Valves, Triple Offset Butterfly Valves where there is possibility of International Competitive Bidding. CNG Compressor business is also a good business and to be considered in the present and future scenarios. This can be a growth area for SRB. BOG & Flash Screw Compressor can also be looked if foreign vendors are available. Marine Loading/TW & TL Loading Arms is always a growing business and efforts to be made in participation for Indian requirements. Reactor business only those cases where High Pressure and High Temperature is there as well as wall thickness size to be greater than 250 mm should be considered

Besides, I would also suggest SRB to start with its manufacturing initiative taken by Indian Government under “Make in India” campaign.

Oil & Gas Sector in India is becoming more and more technology eccentric as well as the Indian Government policies are becoming more and more directed towards environmental and safety aspects. In this regard I would appreciate SRB in making a good lead towards the same and with its credible decision makers I believe the future is positive.
Indian mining industry has great potential and provides basic raw materials to various industries, including steel and power. India had 308.8 Billion tonnes (Bnt) of coal resources comprised of proved, indicated, and inferred resources of 138.1Bnt, 139.1Bnt, and 31.6Bnt, respectively, as of March 2016. The majority of these are spread across the Indian states of Jharkhand, Odisha, and Chhattisgarh, which collectively accounted for 69% of the country's total coal resources.

By 2021, the country's coal production is expected to grow at a compound annual growth rate (CAGR) of 12.3%. India was third-largest consumer of coal in 2016. Coal is predominantly consumed by the domestic power sector, while steel and cement industries account for a nominal share.

In India's energy sector, coal accounts for the majority of primary commercial energy supply. With the economy poised to grow at the rate of 8–10% per annum, energy requirements will also rise at a reasonable level. Coal will continue to be a dominant commercial fuel two decades from now and beyond, despite our nuclear energy programme, development of natural gas supplies, increased hydropower generation, and emphasis on renewables.

The Indian coal industry aspires to reach the 1.5 billion tonne (BT) mark by FY 2020. In 2016, the industry will naturally need to focus on building on the success of 2015, and be on track for reaching the FY 2020 goal. This requires significant investment in mechanization of existing mines and fast tracking mine development activity in newer mines. In order to achieve the government vision, the new chairman of CIL has also clearly indicated that his strategy would be to improve mine productivity through technology Upgradation in opencast mines with induction of high capacity equipment. In underground mines, continuous miner technology will be leveraged in large scale, long-wall technology at selected mines, man riding system in major mines and use of telemonitoring techniques.

One of the primary goals of the Government of India is to ensure that it is able to meet the country's power generation needs. Another aim is to lower the country's reliance on coal imports by boosting the coal production quickly. India imports about 25% of its coal demand, much of which comes from Indonesia. The government expects that by 2017, it will not have to import coal, except to feed power plants located along the coast. Coal imports have shrunk by around 9% this year, according to the government, which is a positive trend.
Uralmashplant plans expansion in Indian mining sector

“Uralmashplant” JSC is one of the leaders on the Russian market of equipment for metallurgy, mining, oil and gas, building materials and power engineering industry. Uralmashplant, Russia aims at promoting trade and commerce between India and Russia offering its various services ranging from Mining to Metallurgy equipment and services. Throughout its history Uralmash manufactured and supplied more than 250 walking draglines, 12000 Power Shovel and 3000 Crushers of various capacity.

Indian Coal industry needs new mining equipment and upgrade of the existing one to meet its plan of 1 Billion MT Target. Uralmashplant will make every effort to strengthen its positions in the Indian market. The cooperation between Uralmashplant and Indian companies will continue as Uralmashplant has already prepared to participate in new tenders of Dragline, Shovel, and various capacity of Crushers in India. Currently, there are 7Nos. ESH 20.90 and 1No. ESH 15.90 Dragline at the Indian enterprises. The rated service life of a dragline made by Uralmashplant is 25 years. But one of our ESH 15.90 with the S.no.23 at Estonia reached its 50th anniversary last year! The machine is in good operating condition and performs satisfactorily.

For India, Uralmashplant manufactures spare parts and develops design documentation for modern digital control system for the draglines ESH 20.90 & ESH 15.90, which is in service at the coalmine of Coal India Limited. The Upgradation of these draglines are under execution in association with our India channel Partner SRB International Pvt. Ltd.

In order to add value to our services, SRB International Pvt. Ltd. have its Service Centre in Singrauli, M.P for the maintenance of HEMM in mining sector. Facility is under expansion and planned to be established with state-of-the-art service facility, incorporating the latest equipment and technology. Moreover a strategically located and well-stocked parts warehouse in Singrauli, MP ensures minimum downtime of our equipment of area.

In the end of 2015, Dragline ESH 20.90 with AC Drive started working in Kemerovo region at Yuzhnyi Kuzbass works (Mechel group). It is the first Russian dragline equipped with innovative complete AC electric drive system for reliability and cost-effectiveness of Dragline. This Dragline is equipped with a state-of-art automatic lubrication system, an information system which allows the machine operator to monitor the work of dragline units in the real time, video monitoring system for blind areas, and an automatic protection system for protection from overloading and incorrect operator’s actions. The output of dragline is upto 6 million cu.m/year which is a very high output with such bucket volume.

In July, the EKG-20 mining shovel of Uralmashplant loaded a record volume of rock (675.3 thousand m³) in Kaltansky open-case mine. We congratulate the mine management and the machine operating crew on this achievement. In last 3 years, Uralmash have supplied more than 10 nos. of EKG 20 Shovel and several EKG 5 Shovel. We have order for more than 15 nos. EKG 20 Shovel in hand.

Nowadays, Uralmashplant is rapidly increasing the number of orders for supply of crushers to mining and processing (beneficiation) plants. 10 large crushers were produced in 2016. Three crushers have already been dispatched to our customers. At present, 8 more crushing and milling units are being manufactured.

Our designers have constantly been developing new modifications of the designs of Dragline, Shovel & Crushers to meet modern requirements of high productivity and rated service life.
TRAINING PROGRAM IN RUSSIA

Training Of CIL Experts For ESH 20/90 Walking Dragline.

Training sessions focused on all major theoretical and practical information about the systems of electric drive of excavator. During training period specialist have interactive session on following topic related to latest electric equipment of ESH 20/90 dragline:

- Elements of systems of the automated electric drive. The excavator’s cycle. Loads of electric drives.
- Power conversion unit of systems of electric drives. The basic characteristics and features of power conversion unit. The controlled rectifier. Main circuit decisions and classification.
- Direct current (DC) electric drives. The linearized models of DC motors with independent excitation at voltage of armature winding. Control drive of generators & Synchronous motor.
- Electric equipment diagnostics. Conversion and transmission data in IDS. Data representation in IDS. The control of parameters, modes and conditions of the equipment.
- Remote monitoring System of Dragline.

The delegates from India also visited Kuzbass open‐cast coal mines to see ESH 20.90 Walking Dragline with AC Drive made by Uralmashplant in operation. Experts from India surveyed the walking dragline ESH 20.90 and a crawler‐mounted mining shovel EKG‐18 supplied by Uralmashplant to Yuzhnyi Kuzbass UK (Mechel).
At the moment, an ESH 20.90 Walking Dragline (No.3) manufactured and supplied by Uralmashplant in 1991 is being modernized at Nigahi Project site, Northern Coalfields Limited, India. The work is carried-out by SRB International Pvt. Limited under supervision of Uralmashplant specialists.

The dragline No. 3 is undergoing refurbishment of its housing, replacement of the 90m-long boom and the control system (the scope of work will include the replacement of the set of electrical boards of main and auxiliary drives and a digital control system).

Rehabilitation is a successful and economical process where rated life span of Draglines can be increased so that the dragline will operate without overhaul for 15 years at least.

The dragline will be soon commissioned as the modernization works of this machine is in its finalization stage.

Another ESH 20.90 Walking Dragline (No.7) manufactured and supplied by Uralmashplant in 1995 is going through Electrical Modernization at Khadia Project site, Northern Coalfields Limited, India. Modernization of this Dragline involves replacement of all electric cabinets and control panels with new state of the art digital control main and auxiliary panel system and a new digital operator’s desk that display all operational parameter of Dragline.
SRB is pleased to announce that jointly with a Slovenian Base Technology Provider M/s Bosio we have started operation in India for Installation of low consumption gas fired furnaces. We had thought of the strategy for indigenizing maximum scope of supply to make it cost effective and competitive across the Indian market taking up challenge to give best available solution in heat treatment to forging and heavy machine building industries.

Following this path we had already bagged three orders from reputed Defense Organization M/s MIDHANI this year and we are presently executing work for new installation of Bogie Hearth Furnace of 60T, 30T & 90 T Furnace.

SRB has executed all the Furnace Shell Manufacturing in India with our associates and all the procurement of Heat Resistant Castings, Electrical, Blowers, Controllers & chimney has been procured by SRB in accordance to the design and specification of our technology provider M/s Bosio. Presently the site is equipped with required manpower where we have managed supervisor and engineers including riggers and fitters to carry out Mechanical Erection.

A separate team has been deployed for the Furnace insulation & refractory / Castable work. For each furnace we have dedicated manpower to complete the schedule in time.

Steel Chimney erection of 35 Mtrs was executed in mere 3 days with total installation of ladders and lining for the required flue gas.

The Furnace housing, Bogie, Bogie Drive and insulation work already has been completed for 60MT & 30MT and the furnace commissioning is planned to be done shortly with proper software and Burner Management control.

90MT which is 12 Mtr furnace is under manufacturing stage will also be commissioned in 2018 as per the schedule.
We Control the Heat

Split-type vertical furnace
L&T, Hazira

Reheating bogie
hearth furnace

Furnaces & Manipulator

BOSIO Industrial furnaces
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SRB has accelerated into the field of supplying of Russian make highly consumable cutting tools/picks for the equipment like- Continuous miner, surface miners, roof bolter, feeder breakers, foundation drilling rigs etc. We successfully concluded the on-site comparative testing of cutting picks in comparison of some European competitors and the result was almost double in terms of production with our installation and of course economical prices then other overseas developers. The efforts were rewarded by six bulk orders within a short period of time. Similarly- Testing has been done/ in process with various OEM/End Users.

Successful Trail of Composit Hoses in various Steel Plants

In the segment of supplying of Slurry/ Dredging rubber hoses, considering the durables & long run economical parameters of these hoses, the efforts are being made to introduce Russian make hoses in Indian industries. The first step has been already taken by securing the trail supply orders from two steel plants. The testing schedule of hoses has been already finalized with various subsidiaries of coal India, various private coal washeries for the installation of these hoses and with various organizations engaged in dredging activities at various ports of the country.
RECENT ACHIEVEMENT — OPERATION & MAINTENANCE

After successful complete refurbishment Walking Dragline of Coal India Limited and installation of Bogie Hearth Furnace for M/s Midhani by SRB International Pvt. Limited, in order to add value to our services, we have enhanced our service capabilities for the maintenance of equipment of our Principal companies. We already have well skilled staff of 50+ technical professional in our Service team, who are available to provide services to our customers 24X7.

After establishment of service capability for Mining and Metallurgy sector, SRB is now associated as service provider with foreign Principal in Railway and Heavy Tools sector for providing service support to existing equipment.

SRB is associated with JSC “Kalugaputmash”, Russia (Sinara Group Company) for sales and after sales services of their new and existing Railway equipment in India like Ballast Regulator Machine (BRM), Work Site Tamping (WST) etc. SRB is now involved in process of final commissioning of one BRM machine supplied to Indian Railway. For 15 nos. Worksite Tamping Machine, SRB is in the process of signing service agreement with Indian Railway.

Basically, even after decades of intensive machine use a complete revamp can be an effective and cost-efficient alternative to new investments. SRB carry out the revamp process at our customer’s site. A revamp will update machine to state-of-the-art performance – and provides considerable economic benefits due to optimum machine performance. SRB is recently associated with World Machinery Works, Romania and very soon, we will be providing Maintenance services and Refurbishment of various Machine tools in India like Horizontal Boring and Milling, Bridge Type Milling, Vertical Lathe, Horizontal Lathe, Roll Grinding Machine, Knee Type Milling Machine etc.

We are also open for discussion for providing Technical Services to other OEMS’s through our established state of the art Service facility which is strategically located in Singrauli, M.P. Moreover we have a strategically located and well-stocked warehouse of fast moving spares of our principal's equipment to ensure minimum downtime of equipment of area.

“SRB is committed towards the quality assurance, after sale services & the satisfaction of the customers”
SRB has recently tied with Valv Technologies headquartered at Northwest Houston, Texas. With 30 years of business growth, Valv Technologies has maintained a culture of innovation by continuously expanding its design, production, and technology capabilities. Valv Technologies provides an unsurpassed level of reliability to customers in the fossil power, nuclear generation, mining and minerals, upstream oil and gas, downstream and chemical processing, petrochemical, hydrocarbon, pulp and paper, and various specialty industries. Valv Technologies is the global leader in the design and manufacturing of zero-leakage metal-seated ball valve solutions for severe service applications. What matters most is focus on helping customers meet the challenges safely and efficiently. Whether those challenges are daily process problems that need to be met one valve at a time, or system-wide concerns demanding excellence in valve solutions, Valv Technologies has built solutions proven to help customers. Valv Technologies is committed to providing the best isolation solutions to ensure customer satisfaction, safety and reliability, and improved process and performance.

During the recent visit of Mr. Atul Shakti, Sr. Manager- Mining Business Development to China. The synergy has been formed between the companies to jointly penetrate the Indian market. MTW Corporation, a professional Ground Engaging Wear Parts manufacturer that was founded in 2011. The business is dedicated to the production and sale of wear parts for all types of heavy construction equipment, which includes, but is not limited to, bulldozer cutting edges and end bits, grader blades and overlays, loader cutting edges, bucket cutting edges, tooth and adaptors, track shoe and grouser bars, etc. MTW Corporate office is located in Suzhou city, Jiangsu Province, China and production site is located in Wuhu city, Anhui province, China. The total area is around 60,000 square meters. The current capacity is to process 20,000 tons of steel annually.

During the recent visit of Key Account Manager for the Indian market- Mr. Evan Perminov, SRB & VIST have agreed for signing the agreement for joint marketing of services offered by VIST Group. VIST Group has been working in the IT market for more than 25 years, providing vast experience in the development of information systems and the capabilities of working with complex solutions for various applications in mining and metallurgy, power-engineering, science and telecommunications industries. VIST Group is a leader in the deployment of mine fleet management systems, control systems in Russia, Mongolia and CIS. We successfully implement software systems across broad industrial mining enterprises throughout Russia, CIS, India, Africa, South America etc. VIST Group was awarded the Russian Government Prize in field of Science and Technology in 2009 for developing and wide deployment of the KARIER Mine Fleet Management System.
**Kappa Gi srl, Italy**

Since the 80’s Kappa Gi is involved in vapor recovery, at that time volatile organic compound (V.O.C.) emission control laws were not yet in force. As European emission legislation came into effect an Activated Carbon Section was added to meet the new emission limits. Kappa Gi can offer different processes based on more than 30 years of experience. SRB is in agreement with Kappa Gi concluded in 2016 and is able to provide complete requirement of supply and operation & maintenance requirements.

**“LLC” Innovative Oil & Gas Technologies (IOGT), Russia**

Innovative Oil & Gas Technologies (IOGT), Russia who has vast experience in Well Logging Services with its unique patented tool for logging the sub-surface parameters. The tool uses the neutron gamma radiation spectrometry methods for the study of cased wells in order to evaluate the component composition of reservoir rocks, its porosity, saturation with the determination of the phase state of hydrocarbons and reservoir permeability prediction. Tool’s hardware and methodical system has undergone full metrological verification in certified metrological centers of the Russian Federation: Gazprom Georesurs LLC, Ural-Geo GUP TCMI, VNIIGI OJSC NPP. The technology has been tested and is now applied at the facilities of Gazprom PJSC, Gazprom Neft PJSC, LUKOIL PJSC, NC KazMunayGas oil company (Kazakhstan), the facilities of European companies and others. SRB is in agreement with IOGT concluded in 2016 for 5 years.
We have joined hands with OAO “Tyazhpressmash”. They have the expertise in building special equipment and presses for a large variety of applications for the Forging industries such as Hydraulic presses for Hot and cold Sheet press work, Plate bending machine, Rail – bound forging manipulators, four – die forging device etc.

We are working with them on PAN India basis promoting their patented product of Four Die Forging Device, which is useful in increasing the productivity in shortest time possible, processing super alloys, Inconel and Martensite material.

They are one of the renowned specialist of manufacturing and supplying Mechanical presses different application such as Trimming, Punching, Stampings with calibration techniques. They have supplied their machines in TATA, Bharat Forge etc. They can manufacture press capacity up to 16500 ton. Presently their expert visit to India was made to discuss the upcoming project of trimming press and we have associated with the company to install the upcoming likely project in Future.

We have tied up with one of the finest company who are amongst the largest producers worldwide for Forged Rings used in application in aerospace industry specially for the engines of aircraft. During visit of their delegation, we made them get interacted with interested areas and right after that recently we organized visit of Defense Organization delegation to their plant in Russia where the possibility of supplying such rings were discussed.
JSC RPC Infotrans recently entered into agreement with SRB Group for promotion & sales of Infotrans line of innovative solutions in field of measuring, recording and diagnostic system for train and track and overhead equipment. Infotrans is one of leading firm in field of Track Geometry Measurement System along with Inspection cars.

JSC Infotrans produces computerized cars for contact network testing, on-board systems of contact network controlling for motorailers of ARV class, dynamometrical and brake-testing cars, track-measuring automotive motorailers, computerized cars-trainers, labor protection cars and ecology cars-laboratories, carriages for wavy deterioration indication of rails, automated rails templates, resource-saving technologies for track facilities of railroads, all railways of Russia and of the CIS.

JSC RPC Infotrans, Russia

Kuzlitmash, Belarus

SRB group and Kuzlitmash entered into agreement for sales and services of Kuzlitmash range of products in Indian Territory by SRB, during their recent visit to India. Kuzlitmash is a leading machine tool building enterprise in Belarus. It is well known in the CIS countries as a manufacturer of press-forging and foundry equipment.

Kuzlitmash, Belarus

SRB Group has entered into agreement with JSC MTZ TRANSMASH for sales & promotion of their product range in various Metros projects of India. JSC MTZ TRANSMASH — the leader in domestic brake production. The joint-stock company MTZ TRANSMASH develops and produces brake equipment for all types of freight and passenger carriages, locomotives, motor coach rolling-stock, high speed and extra high-speed trains and rolling-stock for underground railways.

JSC MTZ TRANSMASH, Russia
During recent visit of Mr. Bharat Gandhi Director to Moscow city, Russia, both the companies decided to join hands and work together for penetrating the Indian Market. JSC Sinara-Transport Machines (STM), the Sinara Group’s divisional engineering holding, a Russian enterprise in engineering, production, servicing of railway equipment, electric & diesel locomotives and diesel industrial plants.

Sinara Transport Machines has 5 divisions: Diesel Locomotive Division, "Track Equipment" Division, "Service" Division, "Light Rail" Division, "Electric Locomotives and Electric Trains" Division.

Also during our visit to Kaluga city, Russia. SRB Group and JSC "Kalugaputmash" mutually agreed and decided to collaborate for Indian Railways Business Segment. JSC “kalugaputmash”– A Sinara Group division, one of the oldest and leading engineering company and is supplier and service provider of Railway Track Machines & Equipment. SRB has been entrusted with the responsibility to cater to the new project requirements as well as to provide services and spares for the previously supplied machines to Indian Railways.

SRB got into Agreement with Kızıllırmak Dokum, a leading steel casting modular cast iron and gray cast iron firm based in Turkey. it has foresighted management, experienced & dynamic team and continuously renewing technology. It has brought the technological development to its works and increased its quality and capacity. The company in collaboration with SRB has adopted the principle of producing the best quality goods, fulfilling the commitments in time and enjoys meeting the domestic and international demands on various applications of railways and other industries. SRB is engaged with Kızıllırmak for Supply and services of Brake disc for Axle mounted brake disc brake system for Indian Railway.
**RDM VIGOR, Russia**

During the recent visit of General Director for the Indian Market Mr. EVGENIY VESELKOV of “RDM VIGOR”, SRB & RDM VIGOR have agreed for signing the agreement for joint marketing of services offered by RDM VIGOR.

Scientific-production association “RDM VIGOR” LTD is the developer, manufacturer and supplier of the last-generation flaw detectors to the Russian Railway network. They are very much keen and interested to explore the Indian Business Possibilities & SRB has agreed to help them in each and possible way to promote and establish RDM VIGOR in Indian Railway.

**Prosave, Korea**

This is as per the recent visit of Mr. Young Man Kim (President), Prosave is always challenging and working as a pioneer to accomplish the unlimited possibility to the newest technology for Safety and Environment Protection devices of marine engine, petrochemical, on/off-shore plant & desalination plant. In India, Prosave is looking for a potential partner who can support them not only with individual requirements but also requirements in various EPC projects. Prosave also do have supply to an Indian major company Reliance in recent past.

**ITAG, Qatar**

This is as per the recent visit of Mr. Krishnan Kannan (Operation Manager), ITAG is very interested in Indian Market and is looking for a potential partner to support its efforts in India. Founded by the German oil pioneer Hermann von Rautenkranz in 1912, ITAG Celle is one of the most experienced drilling contractors in Europe. It also manufactures a large, state of the art range of oilfield equipment for the global market. Over the last century, ITAG has grown to over 500 employees and become an internationally renowned service company for energy companies.

**NTE LLC, Russia**

This is as per the recent visit of Mr. Alexander Starovoit (Commercial Director of NTE LLC), NTE LLC has keen interest in Indian market but looking at the requirements it will pursuing the necessary API requirement to proceed further.

NTE LLC carries out designing, manufacturing, sale, monitoring and maintenance of the pumping equipment, which is supplied and operated in the enterprises of Russia and CIS.
One of the world’s leading and most innovative suppliers of Mining Fleet Management Systems

Independent developer of the robotized haulage systems and autonomous mining equipment

Get the most out of the mine!
The 12th international Railway Equipment Exhibition was held at Pragati Maidan, New Delhi, India from 11th to 13th October 2017. The exhibition was organized by the Confederation of India Industry (CII) in association with the Ministry of Railways, Government of India. It was inaugurated by Mr. Piyush Goyal, Minister Of Railways & Coal, Government of India.

The exhibition provided a great platform for companies, domestic and international, to display their latest technologies and products to help meet the current and future requirements of India Railways. It was envisaged that this event will act as a catalyst for the development of Indian Railways in India, focusing on high speed trains and safety of rails and passengers.

Indian Railways, the 3rd largest rail network in the world operates 12000 trains to carry over 23 million passengers per day, connecting 8000 stations spread across India. It runs 7000 freight trains per day carrying about 3 million tonnes of freight every day.

SRB has already decided to actively participate in the current initiative of the largest ever modernization and expansion plans of Indian Railways. It put its best foot forward in taking part in the this prestigious exhibition by showcasing the strengths, past achievements and professional approach in meeting Indian Railways' current and future requirements through its international partners namely M/s Infotrans, Ventprom, Kuzlitmash, Kizilirmak Dokum.
Senior officials of Indian Railways namely Advisor Mr. Jhunjhunwala, Mr. A. K. Khandelwal ED (Track Machines), Mr. S.S. Joshi ED (RS) DMRC, Mr. B.P. Awasthi ED Track (P) Railway Board, Mr. Mudit Bhatnagar ED Track Machines & Monitoring Directorate RDSO, Mr. Anuj Parkash CME COFMOW, Mr. A.K. Rathore CMM RCF Kapurthala, Mr. A.K. Kathpal Chief Design Engineer RCF Kapurthala visited SRB stall and showed lot of interest in the latest technological advancements, new products and innovations of all partners and associates of SRB International Pvt. Ltd.

High Officials of big companies like General Electric, Siemens, L& T, Wabtec etc also visited SRB stall for a fruitful communication with SRB team for understanding the strength of SRB and exploring the possibility of developing long lasting relationship for mutual commercial benefits.

The SRB Group’s successful participation in the 12th IREE has opened up many new business opportunities for the expansion of its Railway Business Unit.
India Steel 2017 Exhibition

The 3rd International Exhibition & conference on Steel Industry with a theme “India Steel 2017” was hosted at Mumbai exhibition Centre, Mumbai by Ministry of Steel and FICCI to provide a platform to all the Participants, Delegates, Business Visitors and other key decision maker from the Steel and other related industry to interact with, and explore new business from April 19-21, 2017. 150 exhibitors, including 29 overseas exhibitors from 11 countries and country pavilions of Japan & China.

SRB group “Metallurgy Division” participated along with their technological Partner BOSIO d.o.o, Slovenia which is the finest producer for Furnaces around the world at Hall No.5 booth No. 129. Tremendous response received from the visitors. The visitors include Indian renowned Metallurgical & Mechanical companies from India & Abroad.

Shashank Agarwal, Aaquib Meraj & Vipin Nambiar from SRB Group & Tadej Kreca from BOSIO Slovenia played active role to materialize the overwhelming response.

Seminar on Heat Treatment of Steels and other Alloys

One Day Seminar on Heat Treatment of Steels and other Alloys - Latest Trends and Opportunities was organized by INDIAN INSTITUTE OF METALS (Hyderabad Chapter) in the 3rd quarter of the year 2017 in Hyderabad.

M/s SRB & M/s Bosio co-sponsored the event and Mr. Bosio delivered a presentation on the present scenario of the Heat treatment solutions and the better techniques which are provided by M/s Bosio to the forging industries.

Mr. Bosio breifed about Heat Treatment of Special Alloys & Special Heat Treatment Processes which can be used to lower the consumption of the fuel and also how the quality of the forged product can be increased. The seminar was attended by organization like MIDHANI, DMRL, NFC, BHEL, C-MET, DRDO, ISRO and others.
Rotation drilling
Russian mining tools

Roadheaders and Tunnelling

Longwall Shearers and Continuous Miners

Foundation Drilling

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SAFETY INITIATIVES IN INDIAN RAILWAYS

Safety of all passengers in Indian Railways is an issue of the utmost importance for Government. Therefore, Govt. have made safety the number one priority. There has been a comprehensive review of safety undertaken to understand the short comings of the Indian railways. The outcome of the review brought forth a number of immediate measures that must be taken to address key issues such as Unmanned Level Crossing and Derailments.

Track safety is the number one priority for The Railways. The issues related to unmanned level crossings have been addressed for a safer commute. 34% of all accidents in 2016-17 were a result of unmanned level crossings. Using transformative mantra of “Speed, Skill and Scale” the target to eliminate these been expedited from the earlier one of 2019. Overriding priority for granting maintenance blocks. Blocks in September are up by 13% compared to last year. Track replacement/renewal to be accorded the highest priority. The Ministry will procure seven lakh tonne of rail, from open market to meet the shortfall of rail for new lines, gauge conversion and doubling. Pre-painted rails to reduce rusting of rails while saving Rs. 1,500 crores.

Another major safety issue hampering the growth of the Indian railways is derailments, due to defects in tracks along with other issues. Derailments are attributed to a number of factors including engineering mistakes, carriage/wagon defects and staff error. It has therefore been the ministry’s priority to focus on track replacement/renewal. The construction of new tracks should be diverted to places/stretches which are prone to accidents and where replacement is due. Another priority is the procurement of new rails on a large scale with a target to complete all new lines on time. This is vital to improving safety as older tracks must be phased out to prevent derailments and improve efficiency. This new line along with old line will monitored and tested for damages and flaw by newly adopted technique like Track Geometry Measurement System and Ultrasonic Flaw Detector System. Such system will ensure the track safety by detecting the damages on tracks.

Indian Railways is focusing on increasing rail network for freight and Passengers for which they have introduced eastern and western freight corridors. Non electrified route will be electrified completely till 2025. Such electrified line will periodically monitored and maintained by Nondestructive testing like overhead line measurement and instrumentation system, Catenary visual inspection system cars etc. Railways is focusing more on both track and overhead line safety, for which Railways is introducing large number of different types of monitoring and testing system and Cars for tracks and OHL.

IR had decided to stop manufacturing of conventional design coaches & only new design LHB coaches should be manufactured with upgraded passenger’s amenities and sound interiors. Conventional coaches have been in service for around 50 years now and are considered to be outdated. The Government is investing in technology to make sure that the way people commute changes and become more comfortable and safer. Some steps are already taken like Ramping up electronic interlock of signals in place of manual interlocking and within few months, CCTV cameras will be installed in all suburban trains in Mumbai with monitoring mechanism along with Fire Alarm and Detection system to be installed in passengers Coaches and Loco motive to prevent Fire issue in Rolling stock ensuring passengers safety. This shall be done in parallel across India as well.

Lastly, Indian Railways have striven to establish a ‘zero accident’ railway system, and it has significantly brought down the number of fatalities under this Government.
Information and measuring system
Video surveillance systems

Monitoring system of railroad track geometry

Manual track measuring device
Health is very important for everyone in their life, maintaining our health keep us fit throughout our life, we should not ignore any of our health problem, it will leads to serious illness in future, so we should never forget the saying PREVENTION IS BETTER THEN CURE, if we our self-maintain our health, there would be no necessity of treatment in future, so we should lean that, Health Is Wealth,

Keeping this in mind we have organized several, steps of taking care of the health of our SRB family

Health education plays an important role in the community hygiene, food safety is the scientific discipline describing handling preparation and storage of food, in a way that prevent food borne illness. We have in-house facilities to provide food with high nutrition & with proper hygiene. The regular sessions have been organized for the awareness about the right diet among the employees.

Vaccines are one of the great triumphs of modern days medicines. Vaccines and antibiotics have made many infectious disease a thing of the past. Considering the increasing risk of life threatening disease Hepatitis B, SRB has arranged for the various doses of vaccination of hepatitis B for employees & their families.
DIWALI CELEBRATIONS

Till not so long ago, Diwali celebration at offices was short and simple. It mainly comprised a small office party, often referred to as Diwali get-together where may be an informal lunch was organised and in most cases, employees came dressed in ethnic wear.

Nowadays, Celebrations seldom went beyond these, and everyone is actively involved in Diwali activities at corporate offices. With our Human Resource team being more prominent and kicking into actions, we have organized a grand Diwali Celebration at our Corporate & Regional offices.

It goes without saying that organising exciting and fun Diwali activities at the workplace can foster healthy work relationships and nurture team spirit. Considering the same our team has organized various activities like decoration of the office, lightening the building with glowing lights, sweets & gifts distribution, employees welfare bonus and prize distribution, ethnic dress day for the employees & dinner.

Corporate
Social Responsibility

CSR activities shall be undertaken by the company as per its stated CSR policy, excluding activities undertaken in pursuance of its normal pores of business, where a company has set up, an organization, which is register as a trust or section 8 company, or society or Foundation or any other form of entity operating within India to facilitate implementation of its CSR activities in accordance with its stated CSR policy. Corporate social responsibility (CSR) is also often referred to as business responsibility and an organization’s action on environmental, ethical, social and economic issues.

On the basis of which, SRB has started a foundation Banner for CSR activity participation & planning to start funding to old age homes, help for study of poor students, those are unable to pay their fee to complete their education, promoting gender equality & empowering women, contribution in orphanage for the wellbeing of children, also contribution to the primary nation contribution to the prime minister national relief fund or any other fund set up by center or the state for social economic development relief fund for the well fare for the minorities & the backward classes.
Annual General Meeting of SRB Group was held recently at Radisson Blu, Ghaziabad. The meeting was focused on our operational and financial performance as well as on the achievements in the sustainable areas. Our proven strategy and proven workforce allowed us to maintain and reinforce our strong position in the market. It has showed our progress & vision. Mr. Bharat Gandhi, the director of the company, elaborated about our initiatives and achievements in all the sectors. Company’s vision, achievements and planning for the next year were presented by respective head of the departments of Mining, Metallurgy, Railways, Oil & Gas, Trading, Logistics & Human Resource department. It has motivated and stated a clear vision to reaffirm the confidence of the team to find the new growth opportunities for the future. Looking forward, the team always believed in setting up new goals, visions, long-term sustainability target.
In the world of high competency, the company needs to update with proper training in every field regularly. Training needs to be relevant to the individual rather than training for training sake, the result is more motivated and capable work force which is able to work smarter & with great confidence and is often more loyal to the company, so we arrange several training programs for our employees' growth & development like:

1. Teamwork Training
2. Communication skills development training
3. Project management Training
4. End user training—G Suite
Equipment for opencast mining, crushing and grinding

Crawler-type excavators
Walking and crawler-mounted draglines
Jaw and cone crushers for all reduction stages
Ball and rod mills, autogenous and semi-autogenous mills