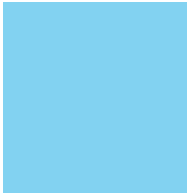




Confederation of Indian Industry

PROJECT IMPLEMENTATION BY **INDIAN COMPANIES** IN AFRICA





Confederation of Indian Industry

PROJECT IMPLEMENTATION BY INDIAN COMPANIES IN AFRICA



From the Director General's Desk



The relationship between India and Africa has withstood the test of time, with historical bonds that are being continuously strengthened on an economic, political and people-to-people level. The large Indian community that has made Africa their home have contributed immensely to the growth and development of businesses in the continent, especially in the East and Southern African region.

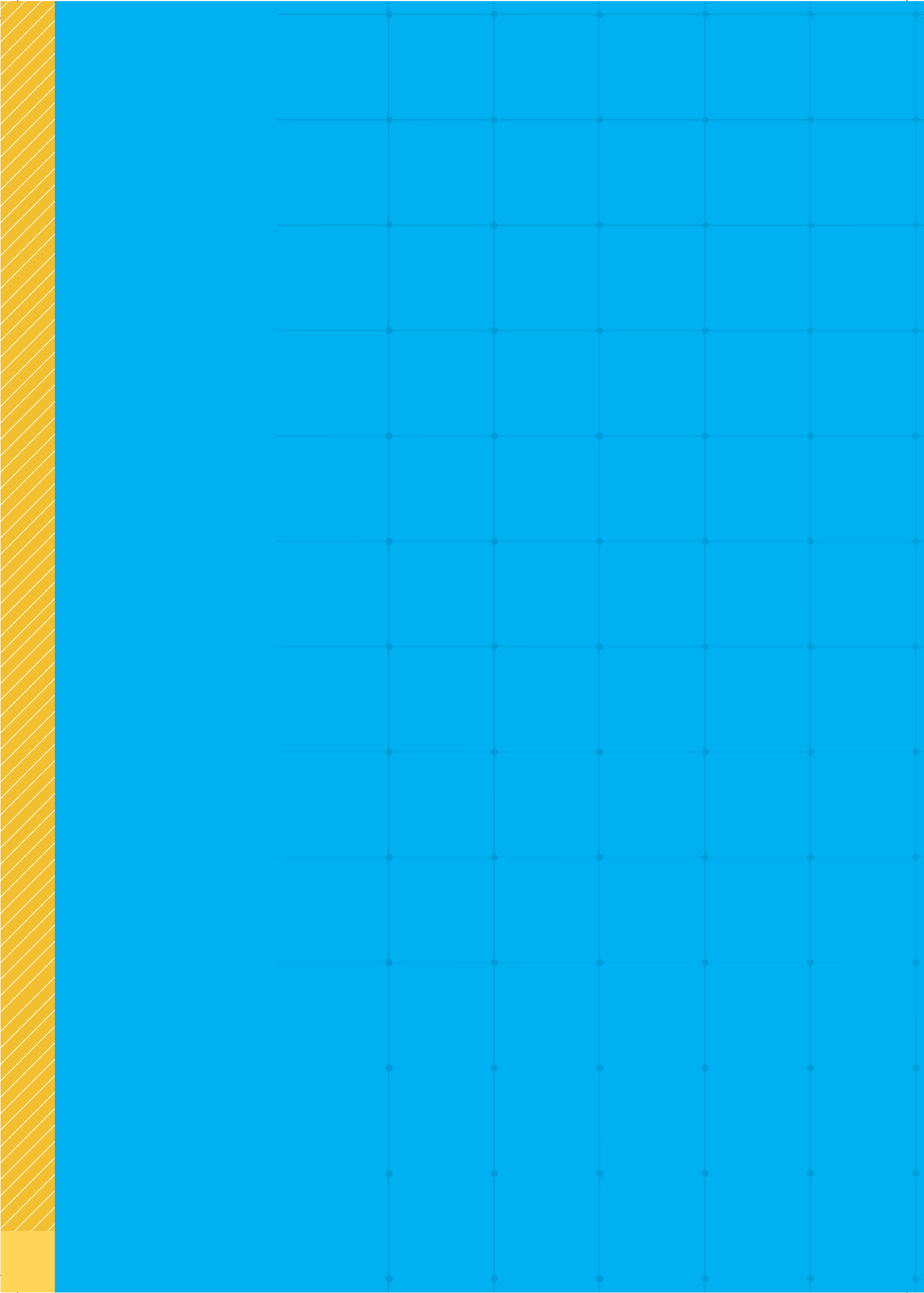
Africa has been called the land of unlimited opportunities and despite attracting investors from all corners of the world, there is still much left to explore in the continent. It is the second largest continent in size, as well as the second most populous region in the world. In fact, Africa is home to the world's ten youngest populations, as per United Nations data. The continent has large amounts of natural resources and vast expanses of arable land. Therefore, it is only natural that all eyes would be on Africa.

India is a powerhouse that shares the desire for growth and development with Africa. It has imbibed the spirit of 'South-South cooperation' and is constantly expanding its partnership with the continent. 'India Inc.' has left its footprint in a majority of sectors in Africa. However, like the unsung hero, not much is known outside the areas where these projects have been executed.

It is with this background that CII brings to you a special compendium on 'Project Implementation by Indian companies in Africa' on the occasion of the 13th CII-Exim Bank Conclave on India Africa Project Partnership, New Delhi, India. The aim is to highlight the variety of projects executed by Indian companies in the continent, as well as their positive impact.

CII's several Africa focused initiatives are going to act as a strong platform to bridge the business communities from both the regions and multiply India's project impact in Africa.

Chandrajit Banerjee
Director General
Confederation of Indian Industry (CII)
March, 2018



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AFCONS INFRASTRUCTURE LTD.

AFCONS Infrastructure is the EPC construction arm of the 150-year-old and USD 5bn Shapoorji Pallonji Group.

Focussing on heavy infrastructure, AFCONS has diverse experience with an enviable record of completing over 350 infrastructure projects in last 6 decades. The company has consistently earned accolades from demanding clients for successful execution of complex projects in areas of Marine, Highways, Railways, Bridges, Metro, Tunnels, Water and Oil & Gas. With a turnover of \$ 1bn, and an order book upwards of \$3bn AFCONS is a leader in Infrastructure EPC in India.

Over the years AFCONS has created leadership positions in India in the following segments

- Leader in Marine : 180+ marine works
- Leader in Metro-Rail : 85+ km elevated & underground Metro-Rail
- Leader in LNG : 6 LNG tanks in India

AFCONS is the only Indian company to have delivered more than 40+ infrastructure projects overseas, on time or ahead of schedule. These projects are in AFRICA (Guinea, Gabon, Liberia, Ghana, Zambia, Tanzania, Madagascar and Mauritius), Middle East, CIS and South Asia.

Having delivered 140+ bridges, 9 tunnels (30+Km) and 4500+ lane KM of roads, AFCONS has been involved in some of the most complex projects in India including World's tallest Railway Arch bridge, India's longest railway bridge, world's longest road tunnel above 3,000m etc. It is the first private Indian company executing turnkey railway project outside India – 84 KM Railway in Ghana.



CSR in Africa: Hand pumps were installed for locals



CSR in Africa: Supporting local orphanages



CSR in Africa: Study material and furniture donated to local schools

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Tema – Akosombo Railway Line, Ghana. It is an 84.8 km single standard gauge railway line from Tema to Akosombo which AFCONS is executing on an engineering, procurement and construction (EPC) basis. It will connect the port of Tema to Lake Volta. On completion it will help expedite the movement of cargo from the Tema Port, which will in turn improve vessel turnaround time to make the port more competitive. It is also expected to address the imbalance between transport modes for long distance transit and domestic freight from the southern to the northern part of the country. Railway heads or terminals will also be constructed at Tema and Akosombo including the provision of operational facilities and loading equipment. This is expected to ease the pressure on the road networks along the corridor At the same time the railway link is expected to significantly reduce the cost of transportation of bulk commodities as well as offer an alternative and cheaper means of transport for passengers who ply that route.	Underway		Ghana
02	Lusaka City Decongestion Project The project is aimed at redesigning the major road network for Lusaka city with a view to reducing traffic jams, travel time, travel distances and saving our precious fuel. The project will see the construction of ring roads and upgradation of roads in order to make Lusaka a smart city. 1. The total road works is 120.7 km with dedicated bus lanes on the middle of the road. 2. Rehabilitation and upgrading of 91.4 km of ring road; including a new outer ring road. 3. There will be 4 Grade separators or top-deck roads at 4 selected points of the city 4. Roads will be upgraded to 4 lanes and 6 lanes.	Underway		Zambia
03	General Cargo Terminal, Port Owendo, Gabon AFCONS is constructing of General Cargo Terminal, consisting of main berth, backup yard and other facilities at Port Owendo in Gabon. This new port infrastructure will reduce logistics costs by increasing the productivity and thus making the country even more attractive for the industries of import and export and therefore the Foreign Direct Investment (FDI). The project has been completed in a record time of 18 months. It is the fastest executed port project in Africa.	Completed		Gabon



General Cargo Terminal at Owendo, Gabon



Oil Jetty, Mauritius

No **Name of the Project and positive impact**

Year and Status of Implementation
(Completed or Underway)

Project Size
(Small/Medium /Large)

Country of Implementation

04 Multiple Projects For Iron Ore Project In Liberia

Since 2010 AFCONS has been delivering multiple projects in Buchanan, Tokadeh and Yekepa for ARCELOR MITTAL for its Iron Ore project in Liberia.

Key Projects include

- Refurbishment & Expansion of port facilities at Buchanan
- Mine Preparation and Material Handling facilities at Tokadeh

Multiple community engagement activities were carried out including

- Development of local workforce through training even for youth not employed at site
- Providing drinking water through installation of hand pumps in Buchanan
- Construction of community centres
- Renovation of local churches
- Distribution of furniture and books for local schools

Pillars of Community Development in Africa

Access to water supply facilities: Families living around our site in Buchanan suffered ordeals to meet their water supply needs. We installed hand pumps to help them meet this basic need.

Development of local workforce: In Liberia, locals comprised 75% of AFCONS' workforce. They were developed through several training initiatives.

Township support: AFCONS worked towards betterment of a prison and court in Buchanan by

- Fencing the yard in Buchanan prison
- Providing desks to help prisoners study
- Fencing Buchanan magistrate court
- Donating tubelights and cables for street lighting; Building a local market

Construction support:

- Construction of Community Center at Zolowee village, Nimba County
- Construction of Production Studio for Buchanan FM Radio Station
- Renovation of church Yekepa

Completed

Liberia



CSR in Africa: Soft skills training provided to locals



Iron Ore Mining Project, Liberia

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<ul style="list-style-type: none"> Construction of market in Buchanan for small vendors Construction of bus shelters with hand pump and toilets at Monrovia Junction, St. Johns River Market and First Compound <p>Recognition</p> <p>Buchanan City Corporation, Liberia has issued an Appreciation certificate for the groups CSR activities</p> <p>Ministry of Justice, Liberia has issued an appreciation letter for fabricating new fence inside prison</p> <p>Liberia Marketing Association issued an appreciation letter for community services in Bassa</p>			
05	<p>Afcons Has Executed 3 Projects In Mauritius Including</p> <p>1. Oil Jetty</p> <p>Afcons has carried out the construction of a dedicated oil jetty at the Port Louis harbour. Crude oil is imported to the country and the facility enabled the country to enhance its capacity to meet requirements.</p> <p>2. Cruise Berth</p> <p>With the twin objectives of promoting this hub-port status and further enhancing the service level to cruise passengers, the Mauritius Ports Authority initiated action for the construction of a dedicated cruise facility at Les Salines since November 2008.</p> <p>Tourism is a key driver of Mauritian economy. In the last decade till 2010, the growth of cruise tourism has been impressive and though a small component locally, it had grown fast growing segment in the global tourism industry.</p> <p>The construction of the project was completed in less than an year.</p> <p>3. Upgradation of port facilities</p>	Completed		Mauritius



Cruise Berth, Mauritius

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Angelique International Limited
PROJECT ENGINEERING, PROCUREMENT AND CONSTRUCTION COMPANY

ANGELIQUE INTERNATIONAL LTD.

Angelique International Limited is a leading Indian EPC company (Engineering, Procurement and Construction) delivering complete project solutions in vital areas of power, water, agriculture, irrigation, Social infrastructure and industrial projects in India and across the globe. **Angelique International Limited** is equipped with 350 plus Technical manpower, 32 plus international offices and in house Design Engineering Capability.

Angelique International Limited has achieved excellence and won accolades not only in India, but also internationally with path breaking projects like Nyabarongo Hydro-Electric Project, Rwanda; Afghanistan India Friendship Dam (Salma Dam); Ivory coast (Transmission Line Project- Inter connection between Mali and Ivory Coast); Repair & Maintenance workshops for water supplies at Erbil, Iraq and Swaziland (IT Park). Angelique International Limited has been awarded the India – Africa Champion in 2015 by ASSOCHAM, Niryaat Shree Award by Ministry of Commerce and Industry, Government of India; and "Commander De L'Ordre National Du Mali"- the Highest Civilian Honor of Mali to the Chairman, **Angelique International Limited** among other awards and accolades.

Incepted in 1996, the Company conforms to OHSAS 18001:2007 Health & Safety Management System, ISO 14001:2015 Environment Management System and ISO 9001:2015 Quality Management System for Engineering Procurement & Construction (EPC) related projects.



10 MVA Booster Transformer



3333 KV Switch Yard



Erection of River Crossing Tower

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Rural Electrification Project in Nampula, Zambezia and Inhambane Provinces Country – Mozambique <p>The purpose of the project was to develop a 33KV backbone network to provide electric supply in district HQ and important cities in the district. The project was implemented in three provinces of Mozambique namely Inhambane, Zambezia & Nampula. The Scope of Work included the following 1. 10 MVA Booster Transformer Substation to boost the voltage level of existing Line at Malaia 2. 916 KM Overhead Transmission Line to transmit power to different location from nearest substation 3. 34 Nos Transformer Substations to step down the voltage from 33 KV to 400V. 4. 28 KM LV Line to connect the supply to Houses. 5. 1500 Nos service connections.</p> <p>Positive Impact</p> <p>Due to this project there was a boost in the services of hospital, school and small industries in those areas. The project was completed in three years. There were total 9 routes in this project namely 1. Sitila- Funhalouro 2. Matalalane- Mucodone 3. Lindela- Maxixe 4. Vilanculous- Mabote 5. Ribaue-Lalaua 6. Nampula-Mongincual 7. Manapo- Namialo 8. Gonhane- Chinde 9. Mocuba-Lugela. The site execution was done by local sub-contractor Electroredes Lda. Ingerop South Africa was the consultant of the project. Most of the materials (almost 85%) for the project was supplied from India. The preparation of drawing & design was done by Indian Consultant. The survey was done by a local survey (Moz Survey) agency in Mozambique.</p>	Year- 2013 Completed	Medium (29.999MUSD)	Mozambique
02	Construction Of Water Facilities In Nansio Town, Ukerewe, Tanzania (Ivwasan-ii) <p>Project Description:</p> <p>Construction of Water Facilities at Nansio town is a Water Treatment and Water distribution project awarded to us by our Client Mwanza urban Water and Sewerage Authority in Dec.2014. The project was initiated by Lake Victoria Water and Sanitation authority in 5 countries who get their majority of access to clean water from Lake Victoria viz Kenya, Burundi, Rwanda, Tanzania and Uganda. The Project was supervised by COWI consultants Tanzania Limited. The Project duration was of 18 months in lieu of which we successfully handed over the entire project in 17 months with best quality materials and services.</p>	Year- 2016 Completed	Medium TZS 10,904,762,789) (USD 6,575,075)	Tanzania



Water treatment plant

No Name of the Project and positive impact

Year and Status of Implementation (Completed or Underway)

Project Size (Small/Medium /Large)

Country of Implementation

Features:

Our project is a unique project with supply and installation of a gigantic floating barge of 20 Tons amidst lake Victoria .A fully equipped state of art technology (With electromechanical equipment's installed) implemented 1st time in Tanzania. We laid total pipe of 51.6 KMs and constructed 3 reservoirs with a capacity of 3000m3, 680m3 and 350 m3.

We have constructed a big reservoir of 3000m3 in Nansio which was supervised and constructed under our client Mwanza urban Water and Sewerage authority for the first time.

Challenges:

Nansio being island amidst lake Victoria is 78 kms from Mwanza (Nearest big city). Logistics was the major challenge for the execution of project. All material was totally dependent on Ferry transportation. Being an island in nature generally all item viz material, daily needs medical emergencies was the biggest challenge. Nansio is also situated in Mwanza region which is also known as city of rocks.

We also faced lots of difficulties in executing project especially during initial excavation where it was too hard to break rocks all the way without the help of big machines (difficult to fetch big cranes because of logistics issue).Under this project scope we had to supply and install floating Barge amidst 500mtrs from the shore of lake. It was toughest of task as we hired specialist diver and tow the barge from Mwanza until the final position in Lake Victoria. We also laid 500mtrs subsea HDPE pipe line at the bottom of lake with the help of divers. As Lake Victoria being a source of fresh water we encountered lot of underwater creatures during installation of barge.

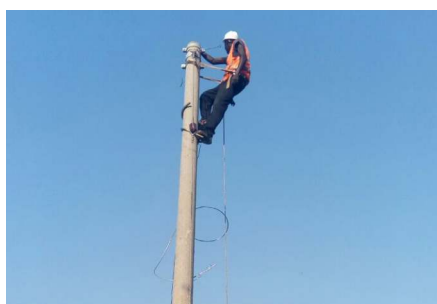
Benefits:

10.5MLD Treatment Plant Project is a project of National importance as Ukerwe being an island amidst Lake Victoria was lagging access to basic amenities viz. Water & Sanitation. After completion of our project in June 2016 a net population of 15000 got access to clean drinking water thus reducing the risk of major epidemic viz. Cholera, Typhoid or other water



Isometric view of Water treatment plant

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>borne diseases. Our project has tremendously improved sanitation facilities in the region. After installation of our project the Local authority NAUWASA declared that volume of clean water delivered by our project is sufficient to suffice population of 25000 people by 2025 as per their population index.</p> <p>Nansio was having scarcity of clean water for last 15 years. Due to its terrain and geographical locations the local government also was not sure to kick start the project as easily as it was not feasible. Once they got financing from African Development Bank only they awarded the Project to us which further resulted in betterment of community.</p>			
03	<p>Last Mile Connectivity Project – Kenya</p> <p>Project description:- This project was for the Procurement of Plant, Design, Supply And Installation of Extensions of LV Single Phase Lines and Service Cables in Last Mile Connectivity Project (LMCP) in Kilifi, Kwale, Mombasa and Taita Taveta Counties. This was one of the 10 Lots in Phase-1 of Last Mile Connectivity Project, which is a flagship initiative of Govt. of Kenya for increasing electricity access to Kenyans across the country. Value of the contract was USD Four Million, Four Hundred Seventy Two Thousand, Nine Hundred & Forty Two (USD 4,472,942) and Kenyan Shilling Two Hundred Twenty Nine Million, Twenty Six Thousand, Seven Hundred Twelve (KES 229,026,712).</p> <p>Salient Features:</p> <ol style="list-style-type: none"> 1) Erection of 5885 nos of Wooden Poles. 2) Erection of 3958 nos of Concrete Poles 3) Erection of 3958 nos of Concrete Poles 4) 496 KM of Service connection with 10 sq.mm concentric aluminum cable with two core copper communication cable 5) 20,208 nos of household connections 6) All major items like Aluminum Conductors, Complete LV Stay Sets, LV fittings for wooden poles & concrete poles, Complete Protective Earthing Material, etc. were supplied from India. 7) All Wooden Poles were supplied from South Africa. 8) All concrete poles were supplied from Kenya 	<p>Handing Over of Schemes Started from Aug'2017 batch wise & Verification by Client batch wise is in process</p>	Medium	Kenya



Erection of Concrete Pole



Meter Connection to House Hold



Low Voltage Line on Wooden Pole

No **Name of the Project and positive impact**

Year and Status of Implementation
(Completed or Underway)

Project Size
(Small/Medium /Large)

Country of Implementation

Challenges:-

- 1) Most of the site is in remote locations, around 50km to 350 km away from Mombasa.
- 2) Road accessibility to site is very bad. It is worst in rainy season.
- 3) Site being in remote location & distributed over vast area, security of poles & other materials was very challenging.
- 4) Most of the Identified houses for connections were far away from each other.
- 5) Accessibility to most of the houses was difficult as most of them were on hills.
- 6) Shifting of materials for construction on hills were very difficult.
- 7) Construction of complete project was done by 10 sub-contractors. Lot of coordination was required on regular basis for day-to-day monitoring.

Benefits :

The commissioning of the project has resulted in following benefits;

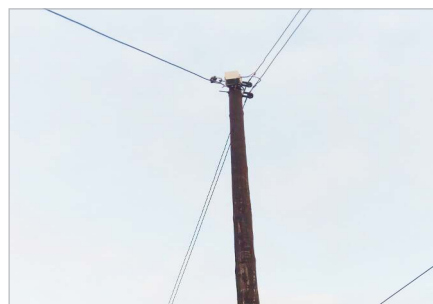
1. Increased electricity access to 20,208 households across the country, Kenya.
2. Reduced the cost of accessing electricity for both the customer and power provider
3. Has increased economic activity (industrial, agricultural, commercial) as well as social wellbeing (households and social institutions)
4. Has full filled Government of Kenya's goal towards achieving universal access to electricity for the population.
5. This project has resulted in reduction of reliance on Kerosene as a source of light
6. LMCP Project has brought down electricity installation cost lowered per unit
7. Has increased the comfort level of Kenyans (20,208 house hold).



Meter Installation on Pole



House Connection



Pole with Stringing

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
04	<p>66/33 Kv 40 Mva Kongolote Substation and 66 Kv Transmission Line At Maputo, Mozambique</p> <p>Project Description – Rehabilitation and Reinforcement of Primary Network & Grid Extension and Customer Connections, Enc.93/Pack 2-1/EDAP-IDA/RR-SEs-Matol-Chim/2012, Lot 1, 66 / 33 kV 40 MVA Kongolote Substation and 66 kV Transmission Line. The contract amount was Five million six hundred nine thousand seven hundred seventy two and sixty one cents (USD 5,609,772.61).</p> <p>Salient Features of the project –</p> <ol style="list-style-type: none"> 1. Construction of 66 kV H-Pole double circuit line ACSR twin dove conductor line in Mozambique. 2. Construction of new 1x40 MVA 66/33 kV Kongolote sub station, starting from leveling of the site to commissioning, complete with SCADA and 33kV GIS Switchgear. 3. Telecommunication link between Infulene S/s and Kongolote S/s including optical cable. 4. Kongolote S/s equipped with advanced safety features like electric fence, FDA system, CCTV camera and intrusion alarm system. 5. H pole (approx. 21 m height) DC line was first time constructed in Mozambique. <p>Challenges –</p> <ol style="list-style-type: none"> 1. Complexity in decommissioning of existing Power Line Carrier System from charged Infulene S/s and recommissioning in new Kongolote S/s. 2. Construction of 66kv line was a challenge as the terrain of line was passing through the densely populated area & road. <p>Objective –</p> <p>The objective of the project was to increase access to electricity and modern energy services in peri-urban and rural areas of Mozambique in a sustainable and affordable manner.</p> <p>Benefit -</p> <p>The construction of the 66/33 kV Kongolote sub station is meant to resolve load shedding problem as well as provide capacity to cater for future load growth.</p>	Year- 2014 Completed	Medium	Mozambique



6633 KV Substation with Incoming & Outgoing Bay 3



Control Room Building of Kongolote Substation - 4



Double CKT 66 KV Transmission Line-1

No **Name of the Project and positive impact**

Year and Status of Implementation
(Completed or Underway)

Project Size
(Small/Medium /Large)

Country of Implementation

05 Nyabarongo Hydro Electric Hydropower Project, Rwanda

Located off west of central part of Rwanda near village Muklara, Nyabarongo Hydro Electric 28-MW hydropower project is the largest hydropower installation in Rwanda, to date.

Executed by Angelique International Limited in a joint venture with the Bharat Heavy Electrical Limited (BHEL). Construction work commissioned in May 2010 and project was commissioned in October 2014. Also, a 110 kV, 27 kms transmission line was constructed for evacuation of the power generated, was completed in a record time.

The project involved construction of a 44.5 m high concrete gravity dam located at the starting of river loop of Nyabarongo, a 1100m long 4.1m circular shaped Head Race Tunnel (HRT), a circular surge shaft of 12m diameter and 82m high and two generating plants of vertical Francis turbo generators housed in machine hall at an elevation of 1430 m to utilize a nominal gross head of about 63 m for generation of 28 MW of power. The project is a boon for people of Rwanda, an African country of 11.8 million people. The total investment for this project was US \$110 million. It has reduced the government's monthly expenditures for diesel fuel for power generation from approximately US\$12.9 million to US\$7.4 million. This less expensive power generation and savings gives a good fillip to the GDP growth. The society in Rwanda is enormously benefitted from renewable and sustainable electricity, which produces negligible amounts of noxious emissions of greenhouse gases, besides providing basis for industrialization and social & economic development and empowerment to the country.

Year- 2014

2X14 MW

Rwanda



Kilinda substation



Dam View from right bank



Top View of Power House

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
06	Construction of Water Supply systems in Nyagatare, Nyanza and Kayonza Towns	Completed in 2017	Medium	Rwanda
07	20 MW (2x10 MW) Kabu -16 Hydro Electric Power Project	Ongoing	Large	Burundi
08	5 MW Thermal Power Plant at Bujumbura	Completed in 2014	Small	Burundi
09	220 kV Transmission Line from Singa to Hawatta to Gedarif with 3 Substations (2 x 100MVA)	Completed in 2010	Medium	Sudan
10	Gedaref - Galabat 220 kV Double Circuit Transmission Line	Completed in 2010	Medium	Sudan
11	Rice Cultivation project and Processing of Mango and Tomato	Completed in 2010	Small	Mali
12	Mali - Cote d'Ivoire Interconnection Project	Completed in 2012	Medium	Mali
13	Agro Machinery & Tractor Assembly Plant	Completed in 2017	Small	Mali
14	Rural Electrification Project - MV & LV Lines,	Completed in 2008	Medium	Senegal
15	Information Technology Park Project	Ongoing	Medium	Swaziland
16	Agriculture Project for Ensuring Food Security	Ongoing	Medium	Swaziland
17	Rural Electrification Project 30 kV	Ongoing	Medium	Mozambique
18	Solar Photo Voltaic Modules Manufacturing Plant of 5 MW per year capacity	Completed in 2013	Medium	Mozambique
19	Supply of turnkey project for enhancing Agriculture productivity	Completed in 2015	Medium	Mozambique
20	Tractor and Agricultural Equipment Assembly Plant	Completed in 2015	Medium	Benin
21	Tractor & Agriculture Equipment Assembly Plant	Completed in 2005	Small	Tchad
22	Potable Water Project in 6 communities	Completed in 2013	Medium	Sierra Leone
23	Supply of Tractors, Implements, Agricultural Machinery and Construction of Rice Mills	Completed in 2010	Medium	Sierra Leone

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
24	Supply and Installation of Solar Street Light System	Completed in 2016	Medium	Sierra Leone
25	Rice Farm Plantation Project	Completed in 2012	Medium	Cameroon
26	Potable Water Project in the Cities of Baney, Cupapa & Riaba	Completed in 2012	Medium	Equatorial Guinea
27	Rural Electrification Project at Labe	Completed in 2012	Small	Guinea
28	Supply of 100 Buses	Completed in 2008	Small	Guinea
29	Rural Electrification project in 73 localities	Completed in 2016	Medium	Burkina Faso
30	Rural Electrification Project	Completed in 2016	Medium	Togo

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APOLLO HOSPITALS ENTERPRISE LTD.

Apollo Hospitals is widely recognized as the pioneer of private healthcare in India. The Apollo Hospitals Group, which started as a 150-bed hospital and today, operates around 10,000 beds across 67 hospitals. Apollo Hospitals is the largest healthcare group in the Indian sub-continent, providing high quality services for the last 34 years. Eight of our hospitals are accredited by the Joint Commission International (JCI). We are the pioneers in tertiary and quaternary healthcare services like Cardiac Sciences, Neuroscience, Orthopaedics, Oncology and Transplant Surgeries in India. A forerunner in integrated healthcare, Apollo has a robust presence across the healthcare spectrum. The Group has emerged as the foremost integrated healthcare provider in Asia, with a network of 2,500 retail pharmacy stores, 100 primary care & diagnostic clinics, health insurance services and clinical research division. To develop the talent for the burgeoning need of superior healthcare delivery, Apollo Hospitals Group has 15 academic institutions including a medical school. The Apollo Group has touched the lives of over 55 million patients, from 121 countries.



JS E&SA MEA - Dr. Neena Malhotra handing over certificate to doctor trained at Apollo Delhi



Doctors at Apollo Chennai with Chairman of Apollo Hospitals Dr. PC Reddy



Doctors trained at Apollo Ahmedabad



Doctors trained at Apollo Bangalore

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Mid-Career Specialized Medical Training Program For African Doctors. The training program started getting traction from the stakeholders across Africa ever since its genesis. After the pilot project in Feb-Mar '17, which witnessed the participation of 24 doctors from 11 African nations, a flabbergasting total of over 250 applications for participation were received against the 100 seats allocated to Apollo across our five Hospital Locations for this batch. The 4 week training program commenced on 21st Aug, 2017 at the Apollo Hospitals units in Chennai, Delhi, Hyderabad, Bangalore and Ahmedabad. Finally 81 out of the shortlisted 100 clinicians from 24 countries were able to join the program.	2017 - completed	Small	24 African nations

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Web: www.apollohospitals.com



ASHOK LEYLAND LTD.

Ashok Leyland, the flagship company of Hinduja Group, is 2nd largest manufacturer of trucks and buses in India, with an annual sales turnover of US \$ 3.3 billion. Ashok Leyland ranks globally as the 4th largest manufacturer of buses and the 12th largest manufacturer of trucks. In 2016 & 2017, Ashok Leyland won the world's most admired and recognized quality awards – the Deming prize for its plant in Pantnagar & Hosur II respectively.

Embarking on its journey to go global, the organization has identified Dubai, United Arab Emirates as a central location for its International Operations Headquarters. In line with its vision to be in the "Global Top 10 in M&HCV trucks and the Global Top 5 in M&HCV buses", today Ashok Leyland has an international presence in over 50 countries. Ashok Leyland handles the African operations through regional offices in Nairobi, Kenya and Abidjan, Côte d'Ivoire and an authorized distributor/dealer network across the continent with 29 touch-points. Ashok Leyland has an entirely new portfolio for the African region, product designed and developed to meet the local requirements and climatic conditions. Ashok Leyland's vehicles have received widespread acceptance across the region.

Over the last decade, Ashok Leyland's International Projects team has been instrumental in successfully collaborating with the Federal and Local government institutions in many countries and offering numerous transport solutions. Ashok Leyland offers a comprehensive logistics model that comprises of supply of vehicles, genuine spare parts, assistance in development of workshops, training and consultancy on fleet management and structuring of vehicle tracking and monitoring systems. Most of these projects have been financed through Lines of Credit or Exim banks buyers credit scheme introduced by the Government of India. The success of this model has been demonstrated with the attainment of self-sufficiency of all the transport projects and the re-procurement of the Ashok Leyland vehicles using the profits generated from previous projects.

The projects executed by Ashok Leyland focused upon delivering a system to meet key local user needs, with the aim of improving quality of life, economic efficiency and safety within a clearly defined budget. Evaluation of these projects showed that users were saving journey time, had less interchanges, were travelling cheaper and felt safer. Ashok Leyland has not restricted itself to providing vehicles to the transporters, but changed the way the African people live and commute.

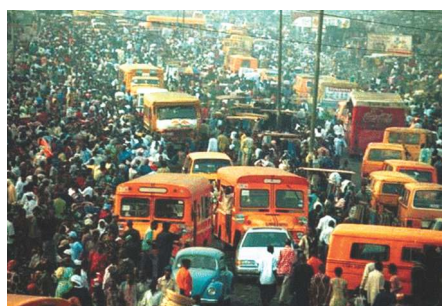


His Excellency Mr. Macky Sall, President, Republic of Senegal inaugurated first batch of Ashok Leyland buses on 4th April '15 at Dakar during their Independence Day celebration



PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Lagos BRT-Lite: Africa's First Bus Rapid Transit Scheme Positive Impacts: <ul style="list-style-type: none"> Improved the living standard of Lagosian as daily commute to work became cheaper and faster Improvement in safety due to better maintained vehicles Creation of employment Catalyst for overall Economic activity A model for transport infrastructure in Nigeria as well as for Africa 	2008 (Completed)	Medium	Nigeria
02	Renovation of Dakar Dem Dikk Positive Impacts: <ul style="list-style-type: none"> Complete public transport solution project comprising of vehicle and parts supply, upgradation of workshops, training and development of Dakar Dem Dikk manpower, fleet management, structuring of vehicle tracking and monitoring systems The uptime of the Dakar Dem Dikk fleet increased from a mere 50% to 90% after the upgradation of vehicles and workshops by Ashok Leyland Interval between bus arrival at bus station reduced from 30 mins to 5mins First transport initiative in Senegal with facilities for people with special needs Structured network which reflects the travel desires of passengers rather than of the operator and minimized the need for interchanges Defined route and fare structure giving certainty to passengers Modern well maintained vehicles offered superior levels of comfort and safety for passengers Reliability of service 	2015 (Completed)	Medium	Senegal



Lagos BRT : From Chaos to Coherence of Nigerian Public Transport



Ashok Leyland buses in Senegal suitable for passengers with special needs

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
03	Ashok Leyland Garuda 4x4 Field Ambulance for Kenya Defence Forces Usage Positive Impacts: <ul style="list-style-type: none"> The 4x4 ambulances offers medical support to remote villages in Kenya where there are no proper road connectivity 	2016 (Completed)	Small	Kenya
04	Logistic vehicles to Tanzania People's Defence Force (TPDF) Positive Impacts: <ul style="list-style-type: none"> Ashok Leyland vehicles are being used for various humanitarian activities carried out by TPDF across Tanzania Some of these vehicles have also joined various United Nation missions and involved in activities across the continent Vehicle supply also involved special application trucks like Water Tankers, Sewage Trucks, Garbage Compactors etc which are being used by the Army to support the daily life of villages in the country 	2015 (Completed)	Medium	Tanzania
05	Project for Renewing the Automobile fleet in Ivory Coast Expected Positive Impacts: <ul style="list-style-type: none"> Newer, cheaper and safer vehicles for the passengers Organized bus and truck operators into a structured transport body under the supervision of FDTR Supported economic growth of the country through faster movement of agricultural goods from the farms to the point of consumption or export Supported the infrastructural development of the country after the stagnant years of internal civil war 	2017 (Underway)	Large	Cote d'Ivoire



Ashok Leyland Garuda 4x4 Field Ambulance for Kenya Defence Forces Usage



President of Tanzania and High Commissioner at the handover ceremony of Ashok Leyland vehicles to TPDF



Fully Equipped Training Centre for Service Training under FDTR Project

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
06	100 buses to Metro Mass Transit, Ghana	2012 (Completed)	Small	Ghana
07	Organized Bus Operations in The Republic of Congo	2017 (Underway)	Medium	RO Congo
08	Trucks and Buses for Ministry of Tourism, Zimbabwe	2015 (Completed)	Medium	Zimbabwe
09	Ashok Leyland vehicles to Ministry of Education, Burkina Faso	2017 (Completed)	Small	Burkina Faso
10	Specialized vehicles for Ministry of Interior, Tanzania	2017 (Underway)	Medium	Tanzania



Côte d'Ivoire project launch for 3600 trucks and buses in Abidjan, Côte d'Ivoire on 11th December 2017

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BEML LTD.

BEML Limited, incorporated in 1964, is a Mini-Ratna (Category-1) Public Sector Undertaking, under the Ministry of Defense engaged in the design, development, manufacturing supply and after-sales service of a wide range of products in areas of 1) Mining & Construction 2) Defense 3) Railway & Metro.

Under Mining & Construction segment, the Company offers various capacities of Bull Dozers, Excavators, Dumpers, Shovels, Loaders, Water Sprinklers, Motor Graders, Pipe Layers, Tyre Handlers, etc. Under Rail & Metro segment, BEML offers Passenger Vehicles, EMUs, Metro Cars, Maintenance & Utility Vehicles, etc. and under its Defense segment BEML offers High Mobility & Recovery vehicles, Bridge Systems, vehicles for Missile projects, Tank Transportation Trailers, Milrail Wagons, Mine Ploughs, Crash Fire Tenders, Aircraft Towing Tractors, Aircraft Weapon Loading Trolley etc.

BEML has 5 manufacturing complexes located at Bengaluru, Kolar Gold Fields (KGF), Mysuru, Palakkad and subsidiary steel Foundry - Vignyan Industries Ltd, in Tarikere, Chikmagalur District. All the manufacturing divisions of BEML have been accredited with ISO 9001 – 2000 certification. BEML has its own world-class composite R&D establishment for Design & Development of products. The Company has nationwide Marketing Network and International Business Division. BEML's products are exported to more than **65 countries** which include many African nations such as Ghana, Malawi, Nigeria, Sudan, Tanzania, Kenya, Uganda, Zambia, Tunisia, South Africa, Zimbabwe etc.

The banner features the BEML logo and a 50th anniversary emblem. It lists three main sectors: Defence & Aerospace, Mining & Construction, and Rail & Metro. Below these, several pieces of heavy machinery are displayed, including excavators, bulldozers, and dump trucks. The central text reads 'One-Stop shop for Mining Equipment'. At the bottom, the website 'www.bemlindia.com' and 'BEML LIMITED (A Govt. of India Mini Ratna Company under Ministry of Defence)' are mentioned.

BEML CORPORATE



Partnering Progress & Prosperity

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Hwange Colliery Company Limited is in the business of mining and processing coal, production of coke and related by products. The Company aims to produce more than (5) million tonnes of coal per annum in order to satisfy the domestic and export customers. Hwange Colliery Company Limited, Zimbabwe's leading coal producer, is located in the remote western tip of the country, Hwange town. To speak of Hwange town is to speak of Hwange Colliery Company. It is a mining town, a Company town, a coal town, which, owing to its remote location, has developed a self-contained community with a population of about 55 000. All services associated with local and central government – from road maintenance to refuse collection, water and power reticulation, schools, health, housing, recreational facilities and sewage disposal – are provided by the Company. It also operates its own railway and road transport system, internal security and telephone system.</p> <p>The Company provides and maintains suitable housing for all employees. Hwange Colliery Company owns and operates a large, modern and well equipped six ward hospital, the biggest in Matebelel and North outside Bulawayo, which is staffed by seven doctors and other professional staff. The Company prides itself on looking after its employees' interest, "from the womb to the tomb". Hwange Colliery Company provides the energy needs of the whole nation from the "black stones that burn". The shares of the Company are quoted on the Harare, London and Johannesburg Stock Exchanges. The Company employs 3200 people and its board comprises of ten members whose composition reflects the holdings of the major shareholders. Hwange Colliery's role in the economy of Zimbabwe is of great strategic importance, as coal is a vital source of energy found in abundance in the country.</p> <p>By supplying machines to Hwange Colliery, BEML shares the pride in the development of Hwange Colliery and the nation as whole.</p>	2014-15 (Completed)	Large	ZIMBAWE



Beml Machines Ready To Ship For Zimbabwe

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BHARAT HEAVY ELECTRICALS LTD. (BHEL)

Bharat Heavy Electricals Limited (BHEL), a premier organisation of Government of India, has made a steady progress in exports over the past four decades. Starting its journey with the first ever export order from Malaysia in the early 70s, the company has covered a long distance reaching out to 82 countries, from the United States in the West to New Zealand in the Far East. Outside India, BHEL has executed close to 11 GW power plant equipment - the number continues to grow with the company recently securing its largest ever project export order, valued at US\$ 1.5 billion, for setting up 1,320 MW (2 x 660 MW) Maitree Super Thermal Power Project in Bangladesh.

The company, which has been pre-dominantly the backbone of India's electricity sector has evolved into a conglomerate with diverse interests viz. power plants (steam, gas, hydro, solar), transmission, industrial products & systems, transportation, defense, water systems, energy storage, etc. This is amply reflected in company's overseas portfolio of products, services & projects covering Thermal, Hydro and Gas-based turnkey power projects, Substation projects and Rehabilitation projects, besides a wide variety of products. In addition, the company reaches out to its clients through offices at Dhaka (Bangladesh), Dubai (UAE) & Jakarta (Indonesia).

With 20 GW per annum capacity for power plant equipment manufacturing, BHEL's mammoth size of operations is evident from its widespread network of 17 Manufacturing units, two repair units, four regional offices, eight service centers, one subsidiary, 3 overseas offices, six joint ventures, fifteen regional marketing centers and concurrent project execution at more than 150 project sites across India and abroad. The total installed capacity base of BHEL supplied equipment of around 180 GW speaks volumes about the contribution made by BHEL to the power sector.

BHEL has had a long association with Africa starting with the Tripoli West Power Project in 1978. With a presence in 20 nations across Africa, BHEL has contributed almost 2000 MW to Africa's power generation capacity.



PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Libya - 900 MW (4 x 156 MW + 2 x 156 MW) Gas Based Western Mountain Turnkey Projects & 240 MW Tripoli West Power Station Project Description BHEL's presence in Libya ranges over 4 decades. The 240 MW Tripoli West Power Station on turnkey basis in 1970s was amongst BHEL's first export orders. The successful execution of this project was followed by other orders for renovation of boilers at Zuara, Benghazi and Derna Power Stations which further led to receipt of BHEL's largest overseas contract for gas based power plant - the 4 x 156 MW Gas based Western Mountain Power Project and the 2 x 156 MW Gas based Western Mountain Extension project both on turnkey basis. BHEL's contribution in installed power generation capacity stands at 15% (approx.). BHEL has been engaged in training of Libyan workforce for O&M of power plants creating local skill set.	Completed	Large	Libya
02	Sudan - 500 MW Um Dabakir (Kosti) Thermal Power Project The Um Dabakir (Kosti) thermal power project inaugurated by President of Sudan in February 2016, is the largest thermal power plant in Sudan contributing about 17% of the total installed electricity generation capacity. The power plant was custom designed to use locally available crude and includes 13 kms long water pipeline and 7 kms long crude oil pipeline. This power plant is a big step towards making Sudan self-sufficient in electricity generation (provide electricity to a large population of White Nile State) and at the same time helped generate skills & employment for the local manpower.	Completed	Large	Sudan



900 MW Western Mountain Power Project, Libya (Gas Turbine based) set up by BHEL on EPC basis



BHEL's CMD presenting a commemorative plaque to Hon. President of Sudan H.E. Mr Omar al-Bashir on occasion of inauguration of 500 MW Kosti Thermal Power Plant set up by BHEL on EPC basis.

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
03	Rwanda - 2 x 14 MW Nyabarongo Hydro Power Plant Nyabarongo Hydro power plant, which constitutes nearly 21% of Rwanda's electricity generation capacity, is the biggest power generation plant in Rwanda. The project was inaugurated by The Honorable President of Rwanda H.E. Mr. Paul Kagame in March, 2015. Not only was the project successfully commissioned in the contractual period, its performance has exceeded the guaranteed performance output. The project has helped increase electricity access to the Rwandan population, and also in lowering of Rwanda's dependence on costly imported oil thereby resulting in saving of valuable foreign exchange for Rwanda.	Completed	Large	Rwanda
04	Senegal - 125 MW Sendou Coal Based Power Plant The AfDB funded project is under advance stages of completion. It is the first ever IPP in West Africa for coal based power plants and will replace the existing Diesel Generator sets & enhance Senegal's installed capacity by approx. 20%.	Underway	Large	Senegal
05	Ethiopia - Finchaa & Tendaho – I Sugar Factory Projects These are BHEL's first cogeneration projects in Africa and the largest sugar factory projects of Ethiopia. These projects are funded by Government of India where BHEL has been involved in setting up the captive power plant of the factories.	Completed	Large	Ethiopia



Boiler drum lifting of 125 MW Sendou Coal Fired Thermal Power Project, Senegal.



Hon. President of Rwanda H.E. Mr Paul Kagame inaugurating the 28 MW Nyabarongo Hydropower Plant, Rwanda.

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CHANDERPUR WORKS PVT. LTD.

Chanderpur Group is a 55 years old company in manufacturing of Cement plants, Fertilizer processing equipment, Mineral processing equipment, Biomass gasifier for thermal & power application specifically for rural electrification, lime processing plants, pressure vessels, Paper plants & specialized engineering Goods. We have supplied & installed our equipment in India & almost all parts of the globe. We have Worked extensively in African region. We have supplied cement plants to Zambia, Congo, Djibouti, Botswana, Malawi, Kenya & Yemen, our fertilizer plant in Tanzania, currently we are supplying lime plant in Nigeria, already supplied biomass gasifier in a rice mill in Rwanda & special purpose projects in Senegal, Egypt etc. Our company can undertake any plant in above fields from concept to commissioning. We are also supplying spare parts to the industries as per their requirement.



Rotary Kiln Cement Plant



120 KW biomass gasification plant Novel Energy, Rawanda



50 TPH Rotary Nodulizer Building Material Industries Company, Egypt

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Building Material Industries Company, 50 TPH Rotary Nodulizer Positive Impact **	Completed (2014)	Medium	Egypt
02	National Cement Company, 1000 TPD CEMENT GRINDING UNIT Positive Impact **	Completed (2010)	Large	Kenya
03	Kam Industries, 50 TPD LIME KILN Positive Impact **	Underway	Large	Nigeria
04	Minjingu Mines & Fertilizers Ltd. 100 TPD GNPk Fertilizer plant Positive Impact **	Completed (2007)	Medium	Tanzania
05	Novel Energy Limited, 120 KW biomass gasification plant Positive Impact **	Completed (2015)	Small	Rwanda

Positive Impact **: All plants mentioned above are the showcase of Indian technologies for small & medium scale industry that small entrepreneurs can also put up these type of plants which boost micro economies, employment etc like Medium, small & micro industries have done in India.



1000 TPD Cement Grinding Unit National Cement Company, Kenya



Vertical Cement Kiln

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ECONO SERVICES (INDIA) PVT. LTD.

Econo Services (India) Private Limited is a 17 year old Company, promoted and run by Mr. Ganesan, a Post-graduate in Technology and a Consultant with over 40 years of experience with keen interest in promoting modern and cost-effective technologies worldwide, also having served in one of Indian Prime Minister's Task Forces in the past.

Working in close association with some of the latest technology researchers and leaders in this field in India, Econo Services seeks to provide the right kind of **Wastewater (both sewage and industrial effluent) and Potable & Industrial Water Treatment (including Desalination)** solutions that meet the technical and environmental requirements of its clients, economically.

Econo Services promotes worldwide, the AICR (Advanced Immobilized Cell Reactor) technology, one of the most advanced & effective technologies in Wastewater Treatment. This technology has been developed and patented by a reputed Environment Technology Research Lab of the Government of India.

Any client implementing an STP/ ETP will get the benefit of guarantee for the technology & project not only from Econo Services, but also from the Environment Technology Research Lab of the Government of India.

Econo Services promotes the modern concept of **decentralized STPs**, which reduces the cost Sewage Treatment (including underground sewerage) by 50% or more, besides making available treated sewage for re-use for agriculture, gardening, toilet flush, car wash, and industrial applications.

AICR, being a clean, non-smelly, environment-friendly, modular, scalable and cost-effective technology, is eminently suited for implementing STPs in a decentralized form. Since developed countries have already invested heavily in Centralized STPs situated in uninhabited corners of cities, particularly in the form of huge underground sewerage lines, the ideal market for decentralized STPs is developing countries.

Econo Services is currently **concentrating on some countries in Africa (like Ghana, Nigeria and Namibia), Iran and Malaysia, besides India.**



Ghana ETP Pictures



Namibia STP

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>1 MLD (1000m3/day) Effluent Treatment Plant (ETP) for Seafood Processing Industry (Cosmo Sea foods), Tema, Ghana</p> <p>Case Study of Positive Impact of 1,000 M3/day ETP at Cosmo Sea foods, Tema, Ghana</p> <p>Cosmo Seafoods, Ghana, now boasts of a state-of-the art Effluent Treatment Plant (ETP) for their tuna fish processing plant located at Tema.</p> <p>The factory of Cosmo Seafoods, a South Korean owned company, was under construction and no effluent samples or test results were available when Econo Services was invited to quote; only indicative values from literature were given. They wanted the ETP to ultimately treat 1,500m3/day of fish processing effluent from the factory to meet their EPA guidelines.</p> <p>Fish Processing Effluent is not as simple to treat as sewage or most other industrial effluents, as everyone will know. Dead fish stink and fish effluent will start stinking quickly. One of their constraints was that their factory was right on the national highway leading to the country's main port at Tema. So, in case of any smell, foam or such environmental issues with the ETP, they would face a serious criticism from the public and the Government. Also, their factory produces export food and their Office building is located very next to the ETP site. So, they wanted odour and any impact of microorganisms to be eliminated completely in the surrounding.</p>	Completed (First Phase on May 2014 & Second Phase on October 2016)	Large	Ghana



Ghana ETP



Ghana ETP

No Name of the Project and positive impact

Year and Status of Implementation (Completed or Underway)

Project Size (Small/Medium /Large)

Country of Implementation

Taking all these factors into account, Econo Services designed an ETP for them. The client handled procurement and erection by themselves, with the guidance of Econo Services. Today, the ETP meets and betters all these requirements.

Since their fish processing production capacity had reached only 20% capacity, the first phase was commissioned only for 500m3/day of effluent on 8th May, 2014. **Since our system is modular, we could commission part capacity** without adversely impacting efficiency. With almost any other technology, efficiency would have suffered, and the client would have been spending a lot on electricity alone. Subsequently, the second phase of the ETP was successfully commissioned on 21st October 2016, to handle 1,000 m3/day of effluent.

The Treated water coming out of the system is colourless with no visible suspended solids, is odour-free and is currently discharged. The client can reuse the treated water at a later stage directly since it is of good quality, and reuse for higher industrial applications with appropriate tertiary treatment.

Comparison of Raw Water and Treated Water Parameters A Month After Commissioning

S. No	Parameter	Raw Water	Treated Water
1	BOD(mg/l)	2640	31
2	COD(mg/l)	4280	300
3	TSS(mg/l)	1760	116
4	TDS(mg/l)	1710	1147
5	Oil & Grease (mg/l)	533	<3
6	Total Coliforms (MPN/100ml)	70000	1100

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>The Client's Engineers who have worked in different ETPs said they had never seen such crystal clear treated water right from the time of commissioning in any other Fish Processing Plant installation. The Client has given a positive testimonial.</p> <p>Econo Services is also working on Potable & Industrial Water Treatment Projects, in association with a leading Water Treatment company. With large number of public & private sector infrastructure projects coming up across Africa, Econo Services can handle Water & Wastewater Treatment aspects of these projects cost-effectively, also meeting EPA norms.</p>			
02	12 KLD Sewage Treatment Plant (STP) for Wildlife Resort	Underway (Construction completed, to be commissioned shortly)	Small	Namibia
03	100 KLD Sewage Treatment Plant (STP) for Oil Rig	Underway (Construction activities yet to be completed)	Small	Nigeria

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ESCORTS

ESCORTS AGRI MACHINERY LTD.

Escorts Limited is one the biggest engineering conglomerates in India operating in growth sectors of manufacturing Tractors, Construction Machinery, Railway Parts and Diesel Gensets. Escorts Agri Machinery, the tractor manufacturing division, is a leading tractor player in India and has footsteps in 55 countries across the globe including 25 African, 15 European and several Latin American, US, Asian and South east Asian countries.

Escorts is among the first manufacturers tractors in India and contributed immensely to the efforts of government of India to bring in the Green Revolution. Escorts has been continuously working shoulder to shoulder with governments of several nations and have successfully executed projects funded by EXIM Bank of India in the field of agriculture mechanization.

Escorts has been, time to time, collaborated with the technology leaders around the world like Ford, Carraro, Class, MITA, Bosch etc. with a vision to give India's best to the world and to bring in world's best to India.



Hon. PM Inograting Project - ESCORTS' CEO handing over keys to Hon. PM of Tanzania



Hon. Vice President of Tanzania sitting on Escorts Tractor during opening ceremony



Tractors and implements Supplied assembled & commissioned by Escorts in Nigeria



Hon. Minister and during handing over ceremony in Nigeria

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Supply of Tractors and farm machinery for farm mechanization to the governments of Borno and Kano States Training of technicians for assembly of tractors	2014	Large	Nigeria
02	Supply of Tractors and farm machinery for mechanization to SUMAJKT, Tanzania Set up a tractor assembly plant in Tanzania Training of technical personal for assembly and plant operations Supply of spare parts	2012	Large	Tanzania
03	Supply of tractors and farm machinery to MOA Assembly and commissioning of tractors locally	2008, 2011	Medium	Benin
04	Supply of Tractors and matching implements under agriculture mechanization program Assembly of tractors locally with the help of local technicians Training of local staff nominated by Ministry of Agriculture.	2008	Large	Madagascar
05	Tractors and farm equipment supply	2006, 2007, 2009	Medium	Sudan
06	Supply and assembly of tractors, farm equipment and spare parts to the government of Burkina Faso (Ministry of Agriculture – SONATER/FEER) Training and skill building of technicians for assembly, Operation and maintenance of tractors and farm machinery	2007	Large	Burkina Faso
07	Supply of tractor and farm implements to Ministry of Agriculture Government of Senegal Supply of spare parts and training of technicians	2006	Large	Senegal



Service training to Local technicians being imparted by Escorts Engineer in Nigeria



First Tractor Handover to Farmers in Tanzania

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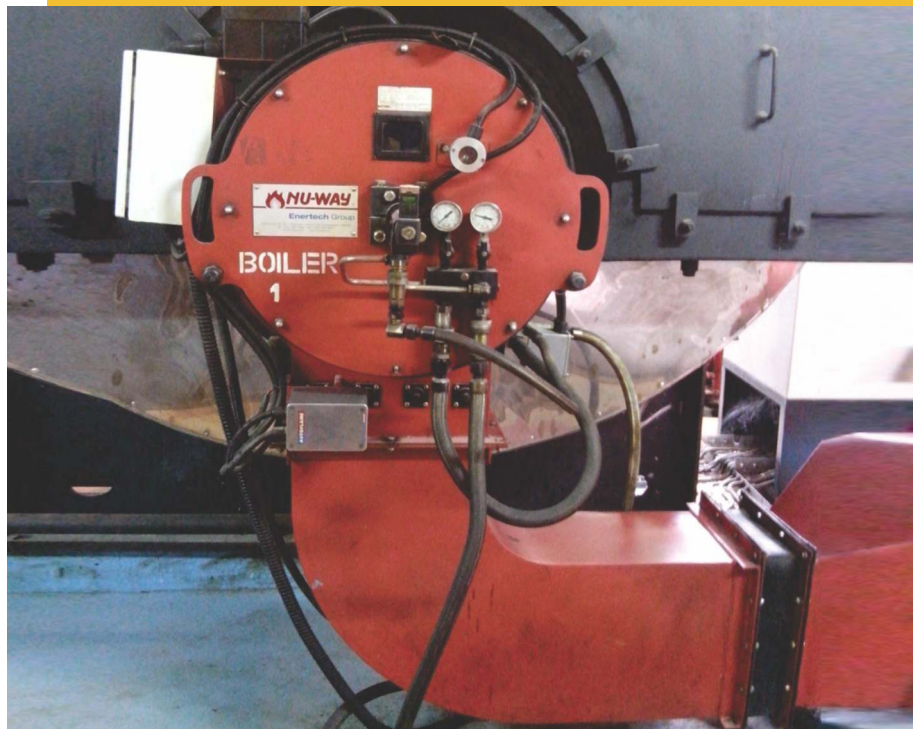
FORBES MARSHALL PVT. LTD.

Forbes Marshall provides steam engineering and control instrumentation products and services for industrial efficiency. We help our customers save energy, improve process quality and throughput, and run a clean and safe factory.

We go to market through a technical direct-sales approach of daily contact with customers across industry. We value every industrial customer, from a regional food-processor or garment factory to the world's leading manufacturers of consumer products to the world's largest refineries. Over 700 engineers located in five continents give us technical depth and breadth, with 150,000 customer visits each year.

We deliver from benchmark manufacturing facilities in three geographies. Our in-house R&D provides a steady stream of award winning products and international patents. Our long and deep customer relationships enable development of unique and innovative products and services that solve real problems. We partner with leading technology companies in Belgium, Germany and Japan to complement our in-house efforts.

Forbes Marshall has consistently ranked in the top 50 Great Places to Work in India, and has repeatedly ranked the best in manufacturing. In 2015, we were ranked 11th overall across Asia. We are only as good as our people, and take great pride in putting people first. Forbes Marshall has always believed in the philosophy of contributing and giving back to the community it operates in. Our CSR (Corporate Social Responsibility) work focuses on education, health and life skills.



Our Boiler and Steam system at Nairobi Hospital



Our Boiler and Steam system at Nairobi Hospital



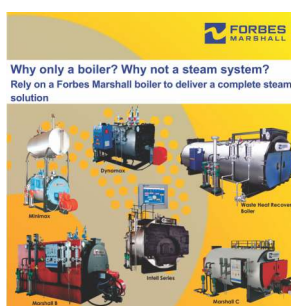
FM factory

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Project: The Nairobi Hospital - Master Plan Relocation of Services</p> <p>Opened in 1954, The Nairobi Hospital is a state of art 300 Bed Modern Hospital located in Nairobi and is one of the most reputed Hospital in East & Central Africa. Expansive investment in latest technology & medical equipment and skilled manpower comprising of the best Doctors has enabled them to take a leadership position in medical procedure both in Kenya and outside. The Whos and Whos of Kenya are treated here!!</p> <p>In 2012 Nairobi Hospital drew up a Master plan to refurbish its Utilities and support services. Howard & Humphrey Ltd (now Atkins Ltd) were the MEP Engineers. Tendering was carried out locally & with International Bidders. The scope was to replace old Boilers with new Boilers & Steam and condensate system for new facility & also interfacing the existing Hospital without interrupting the current facility. This was a LSTK (Lumpsum Turnkey contract) with the buyer only providing us the space to install. This meant importing, clearing, offloading, installing and commissioning the entire system. An extension of this Project was Design, Supply, Install & commissioning of the Steam & condensate system for the 2nd in Africa – Continuous Laundry. A first in East and Central Africa. This Project was executed completely to the clients satisfaction in 14 months. It was an honour & a feat for an Indian company to be associated with the best Hospital in East & Central Africa as were competing with the likes of European manufacturers. Certainly a feather in our cap and a Project worth cherishing & a model of excellence.</p>	2013 to 2014 End. Completed	US\$ 700,000	Kenya



Nairobi Hospital



Kenya new boiler range

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GPT INFRAPROJECTS LTD.

GPT Infraprojects Limited is one of the leading civil construction and manufacturing companies, incorporated in 1980, based out of Kolkata, West Bengal, India. GPT's business is divided into two segments, infrastructure and concrete sleeper. The company commenced production of concrete sleepers for Indian Railways in 1982, while its infrastructure activities began in 2004.

In the infrastructure segment GPT's focus remains catering to the infrastructure, civil construction and development needs of India, particularly the Indian Railways.

In the sleeper segment, GPT is among the pioneers of manufacturing concrete sleepers with its oldest facility in Panagarh, West Bengal. The company did not stop here and extended its sleeper footprints to the international market through exports to SAARC countries and establishing two factories in the SADC region, one in South Africa, and the other in Namibia.

GPT is the only Indian concrete sleeper manufacturing organization to have ventured into the international market, predominantly Africa. Till date, the company has manufactured and supplied more than 15 million sleepers in India and in the international market.

GPT's strong presence in Southern Africa is a reflection of the company's desire to enhance its business ties in the region and foster trade and development in the long term. The company's endeavor has been to enhance its business interest, solidify its footprints, and be part of the potential growth that Africa presents while achieving mutual growth.

Increasing urbanization, industrialization, and need to trade minerals and commodities makes it crucial to improve railway infrastructure. Railway connectivity is rather a pre-requisite to boost economic growth. Evidently, there's a push for infrastructural development, and GPT can be extremely instrumental given its expertise and strong credentials in this line of business. Besides supplying concrete sleepers, the company also possesses robust qualifications in construction of railways bridges, track laying and other rail infrastructure works.



South Africa sleeper plant



Beira Sena Rail Corridor project in Mozambique

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Mozambique, 2006-2011 GPT's association with Africa goes back to 2006 when the company bagged a World Bank funded project for supply of concrete sleepers for the Beira - Sena Rail Corridor in Mozambique. The company set up two dedicated plants during the time to execute the order and successfully completed the project in 2011.	2006-2011 Completed	Medium	Mozambique
02	Ladysmith, South Africa, 2008 In 2008, GPT set up a subsidiary, GPT Concrete Products South Africa (Pty) Limited, to establish a concrete sleeper manufacturing facility in Ladysmith to expand its international business interest for supplies to Transnet Freight Rail, a parastatal in the Republic of South Africa. The factory commissioned in April 2009 in joint venture with the local Black entrepreneurs as per the BBBEE programme of the South African government. GPT installed a state-of-the-art long line technology unit with annual production capacity of 250,000 sleepers or two production lines, manufacturing PY and P2 sleepers. The production line was doubled to 500,000 sleepers per annum in fiscal 2015. GPT is one among three sleeper suppliers in South Africa. The facility has ample storage capacity that allows maintenance of optimum stock level and seamless dispatch operations. GPT's manufacturing activities have been financially rewarding, adding to the company's technical knowhow with a valuable learning experience. The South African sleeper unit records annual revenue of around ZAR 100 million.	Sleeper factory in Ladysmith since 2008	Large	South Africa



Namibia sleeper plant



South Africa sleeper stacked

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	GPT is happy to be part of the region's rail transportation development, besides contributing to the local economy by investing in setting up sleeper factories, generating revenue, creating jobs and attracting homegrown talent, stimulating manufacturing activities in and around the region, and fostering business relation with existing enterprises in the SADC region for regular supplies/raw material procurement. GPT is associated with several local SMEs for generic work and employs around 125 persons in and around the region.			
03	<p>Tsumeb, Namibia, 2010</p> <p>In 2010, GPT entered into a public-private-partnership with TransNamib Holdings Limited (TNHL) for setting up a sleeper plant in Tsumeb, Oshikoto province in Northern Namibia.</p> <p>The PPP joint venture arrangement has been named GPT TransNamib Concrete Sleepers (Pty) Limited, wherein TNHL has 50% shareholding and GPT has 37% shareholding. The factory was inaugurated by HE Mr. Marco Hausiku, the Deputy Prime Minister of the Republic of Namibia on behalf of HE President of Namibia.</p> <p>The plant began production activities in 2011 with an installed capacity of 125,000 sleepers per annum and has since then supplied more than 600,000 concrete sleepers to the Ministry of Works and Transport, Government of Namibia. In fiscal 2015, the unit's installed capacity was enhanced to 200,000 sleepers per annum. GPT is the only concrete sleeper supplier in Namibia. The sleeper unit generates annual revenue north of NAD 70 million.</p>	Sleeper factory in Tsumeb since 2010	Large	Namibia



People at work in Namibia sleeper plant



CSR-Child Care

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>GPT takes active interest in contributing to the social needs of the area around and ensure community involvement in the areas of education, drought relief and skill generation. The company is highly sensitized to the basic requirements and encourages employee participation in various programs.</p> <p>The Namibian unit employs around 100 persons in and around the region. The company trains them for specific operational skill development, besides training on standard machinery, health and safety measures, firefighting and first aid. Technicians are invited from overseas to update them on preventive and scheduled maintenance, troubleshooting, remedial actions in Mechanical, Electrical and Hydraulics.</p> <p>GPT highly regards its association and takes gratification in seeing that its activities have conjointly helped in improving the quality of life in the community around while creating an attractive business climate.</p> <p>GPT takes keen interest in building its relationship further in the region and looks forward to garner on other rail and infrastructure prospects for mutual interest and development of the African transport system.</p>			

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INTERCONTINENTAL CONSULTANTS AND TECHNOCRATS PVT. LTD.

Intercontinental Consultants and Technocrats Pvt. Ltd. (ICT) India, a global multi-disciplinary firm, headquarters at New Delhi, India, that provides a full spectrum of integrated, infrastructure development services across a wide range of sectors for various disciplines with a proven track record of over 31 years of completing comprehensive professional consultancy services in 44 countries covering Africa, Asia the Pacific, the Middle-East and the North America, to the entire satisfaction of the Clients and the funding agencies.

ICT has extensive experience in infrastructure development projects, including Feasibility Study, Detail Engineering Design, Construction Supervision and Technical Support Consultancy in varied climatic conditions ranging from hot and humid (with temperature up to 50°C) to extreme cold conditions (sub-zero temperature) and at all altitudes. We have satisfactorily carried out works in desert and high rainfall areas and in varying terrains, from flat to rolling to hilly terrain. ICT has undertaken over 650 Consultancy Services assignments mostly externally funded, in various developing countries of Africa, Asia, the Pacific and the Middle East, which have diverse social, geographical and economic conditions.

ICT has very strong presence in the Indian market and has penetrated deep into Africa covering more than 20 countries in that Continent in over a decade. We are widely spread over Eastern and Western Africa, and having branch offices in Kenya, Tanzania, Ethiopia and Ghana. ICT has extensive experience of undertaking infrastructure development projects in various countries of Africa. Our specific experience in Africa includes Kenya, Tanzania, Ethiopia, Ghana, Liberia, Rwanda, Benin, Burkina Faso, Cameroon, Central African Republic, DR Congo, Egypt, Gambia, Lesotho, Malawi, Mali, Mauritania, Mozambique, Senegal, Somalia, Sierra Leone, Tunisia, Uganda and Zimbabwe.



Launch of ISUDP Mombasa-2035 on April 6th 2016



Market at Damongo

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Name of the Project: Construction Supervision of Road Works, Length 147.50 km (Lot-1) and Design & Supervision of Ancillary Works / Socio-Economic Infrastructures (Lot- 2) for Fufulso – Sawla Road Project, Ghana (AfDB Funded)</p> <p>Project Description: Scope of project involved Construction Supervision of a 2 lane bituminous road between Fufulso – Sawla (Length 147.50 km) and Design and Supervision of key socio economic infrastructure including Water Supply and Sanitation Facilities, Construction of Schools, Health Centres, Houses for Teachers / Nurses, District Hospital, Markets and Lorry Parks.</p> <p>Impact of the Project: The Africa Development Impact Awards recognize excellence, innovation, result oriented and quality of operations in each of the "High 5s". The Awards go to operations supported by the African Development Bank which have demonstrated unique development impact and improved peoples' lives in Africa.</p> <p>The project has been awarded by AfDB under Integrate Africa Category for scoring high on impact on the local population and sustainability. This road project was part of the regional corridor and had a wider developmental impact by improving mobility of people and goods.</p> <p>Ghana's isolated Northern Regions have long lagged behind the rest of the country. While poverty has fallen with steady economic growth across other parts of Ghana, in the three Northern Regions nothing has changed. Scattered communities and urban centres are far from ports, roads, railways and markets. The Government was committed to closing the gap, and the building of a 148 km road from Fufulso to Sawla was an important part of this effort, in addition to rehabilitating schools and a hospital in the vicinity of the road. This has been continuously improving trade in the sub-region and enhanced tourism revenues.</p>	Dec 2011- Jun 2017 (Completed)	Large	Ghana



Kitchen at Jonokponto School



Rehabilitation and Extension of OPD at Damongo Hospital

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>Key Impact points:</p> <ul style="list-style-type: none"> Reduced travel time between Ffulso and Sawla from five to three hours with adequate safeguards for traffic safety. Increased trade in the sub-region by \$395 million due to the reduction of transport cost from US\$0.62 to US\$0.40 per km. Improved access to health facilities which reduces the mortality rate. The average time to bring patients to the main health centre is now 45 minutes, which reduced the fatality rate by 78%. Improve access to educational facilities. Boosted tourism revenue by 330%. Employed 540 women during the road and ancillary works construction. Moreover, the provision of potable water, sanitation and health facilities helps women and girls. 			
02	<p>Name of the Project: Digital Topographical Mapping and Preparation of Integrated Strategic Urban Development Plans (ISUDP) for Mombasa Town / County – 2035, Cluster – 1, Kenya, funded by IDA</p> <p>Project Description: The main objective of the assignment was to prepare an Integrated Strategic Urban Development Plan; Capital Investment Plan (CIP) and Digital Topographical Maps for total area 288.30 sq. km of Mombasa Town. The purpose of this project is to define a vision for future growth and development for next 20 years; provide an overall integrated physical framework for urban growth; provide a basis for coordinated programming of projects and budget, thereby serving as a downstream management tool. Capacity Building is also an integral part of the whole planning process whereby training has been imparted to the functionaries (Key Staff) of planning department at every stage of the project through hands-on-training. The ISUDP would identify priority programmes that make well planned quality urban living and working environments which can</p>	Sep 2014 - Oct 2015 (Completed)	Medium to large scale projects	Kenya



ATC Tower



Airport Terminal

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>attract investments for enhanced revenue collection as well as for sustainable growth and integrated development of Mombasa town. Planning area of the project town is 288.30 Sq. Km. (28,830 ha).</p> <p>ISUDP is envisaged strengthening of the local governance, development planning, urban investments, and delivery of infrastructure services and also to substantially contribute towards poverty reduction, economic growth and faster realization of Kenya's Vision 2030.</p> <p>ISUDP Mombasasetsb the direction for the development for the next 20 years. It also presents the framework of broad level land uses, zoning, capital investment and implementation plan.</p> <p>Impact of the Project:</p> <ol style="list-style-type: none"> 1. Balanced Urban Growth 2. Vibrant Economy with well distributed employment opportunities 3. Infrastructure Excellence 4. Improved Quality of Living for all 5. Provision of affordable housing 6. Seamless Connectivity and green transport 7. Well Nurtured Environment 8. World class tourism 9. Protected natural, built and cultural heritage 10. Capital investment and resource building & management plan 			
03	<p>Name of the Project: Economic Feasibility, Preliminary and Detailed Engineering Design, Environmental and Social Impact Assessment, Tender Documentation and Master Planning for the Moshoeshoe-1 International Airport Improvement, Lesotho (funded by Govt. of the Kingdom of Lesotho)"</p> <p>Project Description: The airport possesses an existing runway of 3200m length and 45m width that lies approx. north to south (runway orientation 04/22) and a secondary runway 1010 m x 23m that lies approx. east to west (runway orientation 11/29) and meets the</p>	<p>Jul 2013 - Feb 2015 (Completed)</p>	Large	Lesotho



Sawla at km.147+500)



View of Pedestrian Foot over Bridge for Save Movement of Pedestrian Across the main Highway

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>standard of International Civil Aviation Organization (ICAO). The scope of project work was to upgrade the existing runway and to investigate feasibility for extending the runway by 1000 mt and update the facilities at Moshoeshoe-1 International Airport in order to accommodate larger aircraft and to cater for expected increase in passenger and cargo volumes. Modernization and safety improvement of civil aviation transport infrastructure is also desirable to enhance the operation of the airport to an optimum level. The project has been implemented in two phases: (i) Phase I – Economic Feasibility and Preliminary Design; (ii) Phase II - Detailed Engineering Design and Preparation of the Airport Master Plan (AMP) for the next 15 years.</p> <p>Impact of the Project: The air transport infrastructure in the country comprises one international airport and 25 regional and rural airfields of which only 12 are operational. The Moshoeshoe International Airport at Maseru serves as an important link to the outside world. Moshoeshoe-1 International Airport is the only International Airport of the Kingdom of Lesotho. Apparent tangible projects are:</p> <ul style="list-style-type: none"> (i) Boost in tourism. (ii) Better connectivity and time savings. (iii) Easier operation of larger aircrafts. (iv) Increased employment. (v) Enhanced agri-business. 			
04	<p>Name of the Project: Detailed Engineering Design and Construction Supervision for Upgrading of N1 Highway (14 km, 6 lane) between Tetteh Quarshie Interchange to Mallam Junction, MCC funded, Ghana</p> <p>Project Description: The project involved Feasibility study, Environment and Social Impact Assessment; Detailed Engineering Design, construction supervision including relocation of utilities for upgrading of N1 Highway between Tetteh Quarshie Interchange and Mallam Road Junction (TQM), Accra to 6 lane (bituminous surface), Length 14km.</p>	<p>Jan 2008 - Jul 2013 (Completed)</p>	Large	Ghana



View of Trumpet Interchange at Winneba-Mallam Road Junction



Inauguration Day Presidential Entourage in the LOOPS (1)

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>Project includes two interchanges and 5 Foot over Bridges.</p> <p>Impact of the Project: The Road Development project had the following immediate impacts:</p> <ul style="list-style-type: none"> N1 Highway is one of the strongest links across Ghana's agricultural value chain and provides a gateway to commerce and business opportunity. This highway therefore facilitates greater trade and commerce and assist in generation of sustainable economic growth. The New Highway has reduced the peak travel times from an hour to about 20 minutes in the 14.125 Km Stretch. The Ghanaian workers can now more easily travel to their jobs and Ghanaian families have got better access to much needed Social Services. The Project Road upgradation has resulted in the overall reduction in travel time, saving in vehicle operating cost, enhanced speed and level of safety with protection of environmental and social safeguards. The Project has been implemented with assistance from Millennium Challenge Corporation (MCC's) investments in Ghana and is a clear demonstration of the bilateral goodwill between US and Ghana and is a boon to the growing economy for the benefit of people of Ghana. <p>The Project is marked as one of the Ghana's Success Stories in the pursuit of Economic Development and Sustainability and the Project Highway has been officially renamed as the George Walker Bush Motorway in honor of the former U.S. President.</p>			
05	<p>Name of the Project: Supervision of Works for Upgrading of Tanga-Horohoro Road (65 km) to Bitumen Standard, Tanzania (MCC funded)</p> <p>Project Description: The Tanga-Horohoro Road Project is a 65 km long Trunk road project connecting Tanga to Horohoro, the Tanzanian border-post to Mombasa in Kenya. Initially the road was designed only up to the immigration office gate at Horohoro. However, since the modification project at immigration facilities got delayed, 310 m from the entrance gate was extended to Lungalunga at the Kenyan side.</p>	<p>Dec 2009 - April 2013 (Completed)</p>	Large	Tanzania



Main Road General view from Lapaz Towards Apenkwa



Old and New Amboni Bridge

No Name of the Project and positive impact

Year and Status of Implementation (Completed or Underway)

Project Size (Small/Medium /Large)

Country of Implementation

The project was funded by Millennium Challenge Corporation USA as part of a USD 698 Million grant provided to Tanzania for development of Infrastructure, Rural Water supply schemes, Public Health and Education. The Tanga-Horohoro Road project happens to be the first infra-project awarded under the agreement.

The existing road at the time of tendering was a single lane gravel track with many seasonal streams, Armco culverts and few old bridges. Depending on the climatic conditions, the travelling time varied from 4 hrs to 8 hrs, or even more when heavy run off damaged the old culverts. Under the project a number of new bridges have been built and all Armco culverts have been replaced with Concrete Pipe and Box culverts.

Impact of the Project:

The upgrading of the road resulted in many positive developments in the project corridor, some are:

1. Reduced travel time from Tanga to Horohoro to about one hour
2. Increased connectivity to transporters, private vehicle operators etc.
3. Faster movement of Goods and Services including agricultural and fisheries produce.
4. Appreciation in land cost.
5. Improvement in health services & facilities with quick availability of Ambulance services.
6. Development of new commercial activities along the road corridor.
7. Better access to Religious places, Schools, Public Health centers.
8. Economic betterment of residents using land compensation money by way of building modern residences, shops, farm houses and other allied services.
9. Improved development in internet facilities, entertainment/cable networking, Grocery services and fisheries.
10. Better immigration facilities at Horohoro reducing visa waiting time.
11. Designated Vehicle parking area at Border- post, thereby obviating traffic jams and traffic blocks. along the carriage way.
12. Improved tourist accommodation and other facilities.
13. Increase in tourist traffic to various resorts along the coast, with improved access roads.
14. Bus stops and Bus bays provided at all villages facilitated faster through transport.
15. Reduction in road accidents due to adequate Road safety measures.
16. Establishing Weigh Bridge facilities at KM 58+400, LHS with vehicle waiting area. This reduced delay at Border post for commercial traffic and long haul carriers.
17. Bus Station at Mkinga facilitated public transport.
18. Reduced accidents due to separate provision of pedestrian foot path.
19. Better access to Amboni caves and other tourist places.

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
06	Consultancy to Provide Transaction Advisory Services for the Development, Operation and Maintenance of Nairobi-Nakuru (A104) Highway as a PPP Project (World Bank funded)	Feb 2015 - Ongoing	Medium to Large	Kenya
07	Consultancy to provide Transaction Advisory Services for the Operation and Maintenance of Nairobi – Thika Road (A2) PPP Project (IDA funded)	Feb 2015 - Ongoing	Medium to Large	Kenya
08	Consultancy Services for Supervision of Construction Works of the Kagundo Road (Tala) – Kenol, Kenol – Kagundo Road (Koma) and Katumani – Mombasa Road and Rehabilitation of Kenol – Machakos Town – Katumani Link Road, funded by World Bank	Jan 2016 - Ongoing	Large	Kenya
09	Consultancy Services for Design Review and Construction Supervision of the Section of A104 Highway from James Gichuru Road Junction to Rironi, Kenya.	Feb 2017 - Ongoing	Large	Kenya
10	Eastern Africa Regional Transport, Trade and Development Facilitation Project (EARTTDFP): Consultancy Services for Design Review and Construction Supervision of the Re-construction of Kalobeiyei River - Nadapal/ Nakodok Road (A1), Kenya	May 2017 - Ongoing	Large	Kenya
11	Consulting Services for Digital Topographical Mapping and Preparation of Integrated Strategic Urban Development Plans (ISUDP) for Cluster II Towns: Malindi and Kitui, Kenya (IDA funded)	Sep 2014 - Oct 2015 (Completed)	Medium to Large	Kenya
12	Consulting Services for Digital Topographical Mapping and the Preparation of Integrated Strategic Urban Development Plans (ISUDP) for Cluster III Towns: Machakos, Thika & Embu (IDA funded)	April 2014 - Oct 2015 (Completed)	Medium to Large	Kenya
13	Consultancy Services for the Feasibility Study, Environmental and Social Impact Assessment, Preparation of Resettlement Action Plan and the Design and Tender Documentation for the Rehabilitation of the Nakuru – Nyahururu – Nyeri – Marua Road (B5) funded by IDA	Sep 2014 - Oct 2016 (Completed)	Medium to Large	Kenya
14	Consultancy Services for the Detailed Planning and Implementation of the Institutional Changes set out in the Zanzibar Transport Master Plan in order to Restructure Ministry of Infrastructure and Communications (MoIC), in Zanzibar funded by (AfDB), co-financed by JICA	Sep 2012 - Ongoing	Medium	Tanzania

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
15	Consultancy Services for Improvement of Road Safety, Capacity Building and Road Safety Data Collection for the Multinational: Arusha – Holili / Taveta – Voi Road Project for Widening to Dual Carriageway of Sakina – Tengeru Section (14.1 km) and Construction of Arusha Bypass Road (42.4 km) to Bitumen Standard, Tanzania, AfDB funded	Jun – 2017 - Ongoing	Small	Tanzania
16	Consultancy Services for Supervision of Upgrading of Kidahwe – Kasulu – Kibondo – Nyakanazi Road to Bitumen Standard (296 Km), Lot 4: Nyakanazi – Kibondo Road Section (50 Km)	Mar 2015 - Ongoing	Medium to Large	Tanzania
17	Consultancy Services for Preparation of a Manual for Carrying out Economic Appraisal and Evaluation of Trunk and Regional Roads Investment Projects (funded by Govt. of United Republic of Tanzania)	Mar 2014 - Jun 2015 (Completed)	Small	Tanzania
18	Consultancy Services for Feasibility Study, Environmental and Social Impact Assessment, Detailed Engineering Design and Preparation of Tender Documents for Construction of New Wami Bridge and its Associated Approach Roads Along Chalinze–Segera Road	May 2014 - May 2015 (Completed)	Small	Tanzania
19	Transport Sector Support Project (TSSP) - Consultancy Services for Carrying out Feasibility Study and Detailed Engineering Design for Eleven (11) Airports (IDA funded)	May 2014 - May 2017 (Completed)	Large	Tanzania
20	Design review and supervision of construction works for upgrading of Kagoma - Lusahunga Road (African Development Bank Funded), length 154 km	May 2004 - Nov 2014 (Completed)	Large	Tanzania
21	Consultancy Services for Study on the quality of African Development Bank Financed Road Projects (AfDB funded)	Dec 2012 - Jun 2014 (Completed)	Medium	Tunisia, Benin, Kenya, Democratic Republic of Congo, Tanzania, Uganda, Ghana and Cameroon
22	Consultancy Services for the Rehabilitation of Runway and Apron Pavements and Installation of Aeronautical Ground Lighting System at the Takoradi Airport, Ghana	Jul 2007 - Sep 2012 Completed	Medium	Ghana
23	Consultancy Services for the Rehabilitation of Runway and Apron Pavements and Installation of Aeronautical Ground Lighting System at the Tamale Airport, Ghana	Jul 2007 - Sep 2009 (Completed)	Medium	Ghana
24	Consultancy Services for Update of Engineering Designs for Kumasi Roads and Drainage Extension Project, Ghana funded by French Development Agency (AFD)	Mar 2014 - Jun 2015 Completed	Small	Ghana

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
25	Consultancy Services for Construction Supervision of Kombolcha –Bati-Mile Road Upgrading Project, (IDA funded)	Sep 2013 - ongoing	Large	Ethiopia
26	Road Sector Development Support Phase II Project in support of RSDP II APL. No. 2 Credit # 39890-ET Construction Supervision Consultancy Services of Woreta – Woldiya Road Upgrading Project Contract 3: Gashena – Woldiya (IDA funded)	Aug 2006 - Jul 2012 (Completed)	Large	Ethiopia
27	Consultancy Services for Construction Supervision of Jimma-Mizan road upgrading project Contract-2: Bonga-Mizan Junction (funded by African Development Fund & Govt. of Ethiopia)	Jun 2008 - Apr 2016 (Completed)	Large	Ethiopia
28	Consultancy Services for the Construction Supervision of Afdera-Abala Road Project, Contract 1: Hawusewa-Abala- Irebti, Ethiopia (funded by The Federal Democratic Republic of Ethiopia)	Apr 2009 - Mar 2016 (Completed)	Large	Ethiopia
29	Consultancy Services for Review and Update of the Environmental and Social Impact Assessment (ESIA) and Resettlement Action Plan (RAP) for Selected Feeder Roads (IDA funded)	Aug 2013 - Nov 2013 (Completed)	Small	Rwanda
30	Consultancy Services for Preparation of the Environmental Impact Assessment & Social Impact Assessment/Environmental & Social Management Plan, & Pre-Resettlement Action plan of Rwanda Feeder Roads Development Project (World Bank funded)	Apr 2016 - Ongoing	Small	Rwanda
31	Supervision and Monitoring of the Rehabilitation Works for the Roads of Grandes Niayes and Connecting Roads (IDA funded)	Apr 2013 - Jan 2016 (Completed)	Large	Senegal
32	Consultancy Services for Technical and Economic Feasibility Studies and Detailed Engineering Designs and Preparation of Bidding Documents for Gbarnga – Voinjama – Mendikoma Road Lot 1- Gbarnga-Konia Highway (137 km), funded by (KFAED)	Dec 2012 - Sep 2014 (Completed)	Large	Liberia
33	Consultancy Services for Preparation of Spot Wise Rehabilitation / Reconstruction of Rural / Feeder Roads and Associated Structures in the Bonthe and Kono Districts of Sierra Leone [IDA funded]	Jul 2012 - Mar 2014 (Completed)	Medium	Sierra Leone

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
34	Consultancy Services for the Preparation of Bidding Documents for the Procurement of Navigational Aids and Communications Equipment for Freetown International Airport, Sierra Leone.	Aug 2009 - Sep 2009 (Completed)	Small	Sierra Leone
35	Road Sector Institutional Support Technical Assistance Project – (RSISTAP) - IDA credit No.: 2987-UG, Contract No. RDP/HW/S012: Comprehensive review and update of the detailed design of Busega - Mityana Road	Jun 2004 - Jul 2005 (Completed)	Small	Uganda
36	Consultancy Services for study on Non-Motorized Transport in Africa (African Development Bank funded)	Jun 2002 - Feb 2004 (Completed)	Small	Burkina Faso, Central African Republic, Egypt and Tanzania
37	Consultancy Services for the Road Safety Audit Services for the Blantyre-Zomba Road Project (AfDB funded)	Mar 2014 - Aug 2014 (Completed)	Small	Malawi
38	Consultancy Services for the Road Safety Audit Services on the Lilongwe City West Bypass Project (AfDB funded)	Mar 2014 - Aug 2014 (Completed)	Small	Malawi
39	Consultancy Services for Provision of ANE Technical Assistance Team – APL1, (World Bank funded)	May 2006 - Sep 2008 (Completed)	Small	Mozambique
40	Consulting Services for Detailed Engineering Design and Construction Supervision for Hargeisa & Berbera Airports Improvement Project, Somaliland (KFAED funded)	Mar 2011 - Feb 2015 (Completed)	Medium	Somaliland
41	Consultancy Services for Detailed Engineering Design and Construction Supervision of Maakhir University Project, funded by Kuwait fund for Arab Economic Development, Somalia (KFAED)	May 2014 - Mar 2017 (Completed)	Medium	Somalia
42	Consultancy Services for Feasibility Studies, Detailed Engineering Designs and Tender Documents for the 200 km Gwanda to Beit Bridge Road Section	Oct 2015 - Ongoing	Medium	Zimbabwe

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J. P. MUKHERJI & ASSOCIATES PVT. LTD.

J. P. Mukherji & Associates Private Limited (JPMA), a dedicated consultancy organization for Sugar & Allied industries, was established in 1972 and was incorporated into a Private Limited Company in 1974. JPMA is an ISO: 9001-2015 accredited Company.

The firm specializes in all aspects of sugarcane, sugar & by-products with special emphasis on the development of new technologies and most suitable application in the production of raw, refined, white sugar manufacturing, cogeneration of power and production of rectified spirit, ethanol and extra neutral alcohol.

The firm provides total engineering and consultancy services right from concept up to commissioning and performance testing for sugar, bagasse/bio-mass based cogeneration and molasses/grain based distilleries projects.

The services rendered by the company ranges from short terms assignments such as conducting pre-feasibility & feasibility study, detailed project report, technical due-diligence report, energy audit to long term assignments such as management and technical advisory, detailed designing & engineering, procurement assistance, project management & implementation, inspection and supervision for erection & commissioning

The experience profile of the company covers complete spectrum of services through Greenfield integrated projects, expansion, rehabilitation and optimization expansion projects executed in India and 30 countries internationally.

The Company's technical library is well equipped and updated with textbooks, periodicals and literature updated for use by the professional staff. The engineering and design offices are fully computerised. All drawings and designs are CAD generated & facilities of 3D piping designing in Pro-E Software are also available.

JPMA is rendering consultancy services under the dynamic leadership of working Directors M.S. Sundaram, Managing Director, T.S. Rao, Joint Managing Director, D.S. Nikam, Technical Director, S. G. Deuskar Director Commercial & Shirish Karandikar Director Projects under the overall control and guidance of Company's Board of Directors.



Finchaa Sugar Factory, Ethiopia



Kakira Sugar Limited, Uganda
(Project 1 & Project 2)



Kwale Sugar Project - Kwale
International Sugar Company, Kenya

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Kakira Sugar Limited, Uganda Engineering Consultancy services for Detailed Project Report (DPR), Detailed Engineering Services, Project Management & Procurement Assistance, Quality Inspection, site supervision services, trials and commissioning till handing over for following projects, <ol style="list-style-type: none"> Sugar Factory Expansion 3500 TCD (160 TCH) to 6000 TCD (280 TCH) with new 21 MWe Co Generation in the year 2008. Sugar Factory Expansion from 6000 TCD (280 TCH) to 7000 TCD (315 TCH) with additional 30 MWe Cogeneration plant in the year 2014. Total Cogeneration plant capacity is 51 Mwe. Surplus power to Grid is around 32 MW. Positive Impact : <ol style="list-style-type: none"> Production of 225,000 tons of Sugar, which can be used for domestic consumption and Export. Export of 250,000 MWhr per year to national grid Switching to latest art of technology and high efficiency equipment. Technology Development and Training to existing employees. Social & Economic development. Rural area Development. Opportunities for Employment. Foreign currency flow into country due to export of Sugar and Molasses. 	Completed	Large	Uganda
02	Sugar Corporation of Uganda Limited (scoul), Uganda Consultancy services for preparation of Techno Economic Feasibility Report (TEFR) for, <ul style="list-style-type: none"> Capacity - 25 MW bagasse based Cogeneration plant. Cogeneration is to be designed to cater captive power demand & 15 MW export of surplus power to grid. Positive Impact : <ol style="list-style-type: none"> Export of 115,000 MWhr per year to national grid Social & Economic development Rural area Development Opportunities for Employment 	Completed	Small	Uganda



Metahara Sugar Factory, Ethiopia



Tendaho Sugar Factory, Ethiopia



Wonji Shoa Sugar Factory, Ethiopia

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
03	<p>Tendaho Sugar Project, Ethiopia</p> <p>Tendaho Sugar Project is a Green field project of 26000 TCD capacity, with 120 MW Cogeneration in two phases. This is one of the largest Greenfield project ever taken up internationally.</p> <p>Phase 1 (13000 TCD capacity with 40 MW Cogeneration Project)</p> <p>JPMA Scope: Turnkey Consultancy services right from project inception to commissioning of plant.</p> <ul style="list-style-type: none"> • Feasibility study, • Selection of appropriate technology • Preparation of detailed project • Engineering documents, • Tender documents • Tender evaluation, • Contract documents, • Post contract award, • Project management • Construction supervision at site up to final commissioning • Performance tests. <p>Phase 2 (13000 TCD capacity with 80 MW Cogeneration Project)</p> <p>Project Financed by Exim Bank of India through Line of Credit.</p> <p>Status of Project:</p> <p>Phase – 1: Activities completed and 13000 TCD Sugar plant and 40 MW Cogeneration plant Commissioned and final handover procedures are in progress.</p> <p>Phase – 2: 13000 TCD & 80 MW Cogeneration plant is in Progress</p> <p>Positive Impact :</p> <ol style="list-style-type: none"> 1. Production of 275,000 tons of Sugar, which can be used for domestic consumption and Export. 2. Social & Economic development 3. Rural area Development 4. Opportunities for Employment 5. Foreign currency flow into country due to export of Sugar and Molasses. 	<p>Phase 1- Completed</p> <p>Phase 2- Undreway</p>	Large	Ethiopia
04	<p>Wonji Shoa Sugar Factory – Ethiopia</p> <p>Consultancy Services for Greenfield Sugar project for 6500 TCD Sugar Plant and 31 MW Cogeneration Plant</p> <p>JPMA Scope: Turnkey Consultancy services right from project inception to commissioning of plant.</p> <ul style="list-style-type: none"> • Feasibility study, • Selection of appropriate technology • Preparation of detailed project • Engineering documents, • Tender documents • Tender evaluation, • Contract documents, • Post contract award, • Project management • Construction supervision at site up to final commissioning • Performance tests. 	Completed	Large	Ethiopia

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>Status of Project: Activities completed and plant Commissioned & final handover is in progress</p> <p>Project Financed By Exim Bank of India through Line of Credit.</p> <p>Positive Impact :</p> <ol style="list-style-type: none"> 1. Production of 143,000 tons of Sugar, which can be used for domestic consumption and Export. 2. Social & Economic development 3. Rural area Development 4. Opportunities for Employment 5. Foreign currency flow into country due to export of Sugar and Molasses. 			
05	<p>Finchaa Sugar Factory – Ethiopia Consultancy Services for expansion of sugar factory from 4500 TCD to 12000 TCD with 24 MW Cogeneration, 105 KLPD Distillery Existing factory of 4500 TCD capacity having attached distillery for producing 45-KLPD fuel grade ethanol based on final molasses feedstock. PMA Scope: Complete Consultancy services right from Engineering to commissioning of plant.</p> <ul style="list-style-type: none"> • Review of basic engineering previously done by other agencies • preparation of detailed engineering designs • Engineering documents, • Tender documents • Tender evaluation, • Contract documents, • Post contract award, • Project management • Construction supervision at site up to final commissioning • Performance tests. <p>Status of Project: Plant Commissioned in December 2016 Project Financed by Exim Bank of India through Line of Credit</p> <p>Positive Impact :</p> <ol style="list-style-type: none"> 1. Production of 265,000 tons of Sugar, which can be used for domestic consumption and Export. 2. Social & Economic development 3. Rural area Development 4. Opportunities for Employment 5. Foreign currency flow into country due to export of Sugar and Molasses. 	Completed	Large	Ethiopia
06	Metahara Sugar Factory, Ethiopia	Completed	Large	Ethiopia
07	Kwale Sugar Project – Kwale International Sugar Company	Completed	Large	Kenya
08	Assalaya Sugar Company – Sudan	Completed	Large	Sudan

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JAIN IRRIGATION SYSTEMS LTD.

Jain Irrigation Systems Limited (JISL) with its motto 'Small Ideas, Big Revolutions' with more than 10,500+ associates worldwide and revenue of ~USD 1 Billion, is an Indian multinational company with manufacturing plants in 30 locations across the globe. JISL, its subsidiaries and associates are engaged in providing solutions in agriculture, piping, infrastructure through manufacturing of Micro Irrigation Systems, PVC Pipes, HDPE Pipes, Plastic Sheets, Agro Processed Products, Renewable Energy Solutions, Tissue Culture Plants, Financial Services and other agricultural inputs since more than 34 years. It has pioneered a silent Productivity Revolution with modern irrigation systems and innovative technologies in order to save precious water and has helped to get significant increase in crop yields, especially for more than 6 million small farmers. It has also ushered in new concept of large scale Integrated Irrigation Projects (IIP). 'More Crop Per Drop™' is the company's approach to water security and food security. JISL is early pioneer for IOT in the agri-sector and is leading efforts to create global solutions with precision agriculture. Its food brand 'Jain FarmFresh' is well known all over the world for quality and consistency. All the products and services of JISL help create a sustainable future while fulfilling its vision to 'Leave this world better than you found it'.



No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	El Forsan Society for Land Reclamation & Development It is a cooperative farming group, involved in planation of Apple, Vegetable, Oranages in desert. Climate is extreme and soil is sandy with no water. They drilled bore wells and operating MIS. Scope of work: Design, Supply & Installation of Drip/Sprinkler Irrigation Systems including civil work on turnkey basis.			Egypt
02	PICO Farm Private commerical Grower, growing vegetables & fruit crops for exporting to Europe. Scope of work: Supply of Drip Irrigation System with Chapin Tubing and Jain Turbo line on turnkey basis.			Egypt
03	Golden Rose Private commerical Grower, growing flowers in Green House and exporting to Europe. Scope of work: Supply of Drip and Sprinkler Irrigation System for Floriculture Project.			Ethiopia
04	Finchaa Sugar Factory, Addis Ababa It is govt sugar factory and growing sugarcane under sprinkler irrigation system. Scope of work: Supply of Infield and Underground Irrigation Material to Finchaa Sugar Factory, Supervision of Installation and Training of Local Staff from Ethiopia.			Ethiopia
05	Finchaa Sugar Factory, Addis Ababa It is govt sugar factory and growing sugarcane under sprinkler irrigation system to increase the yield. Scope of work: Supply of Irrigation Valves, Fittings & Accessories Supply and Execution of Irrigation Equipments, Pipes from 110-400 mm PN 10 & Pn 16 & Fittings for Irrigation System to Finchaa Sugar Factory.			Ethiopia



No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
06	Wongi Sugar Factory It is private sugarfactory and growing sugarcane under sprinkler system to increase the yield.			Ethiopia
07	FDRE It is govt sugar factory and growing sugarcane under sprinkler irrigation system to increase the yield.			Ethiopia
08	Sugar Corporation Ltd It is govt sugar factory and growing sugarcane under sprinkler irrigation system to increase the yield.			Ethiopia
09	Ministry of Food & Agriculture Ministry It is govt project made for cluster agriculture for group of farmers and irrigated by sprinkler irrigation.			Ghana
10	SIAT Plantation Siat Group (Belgium) is involved in Oil Palm & Rubber plantaion in various countries. They want to take more yield under drip irrigation.			Gabon
11	National Irrigation Board (NIB) Govt has launched this project for self help group of farmers in drought prone zone. Project has started from scratch. JISL has implemented project on Turkey basis.			Kenya
12	A.I.Farms, Kenya Private commerical Grower, growing vegetables & fruit crops for exporting to Europe.			Kenya
13	Pure Diet Ltd Private Company doing Sugarcane cultivation to run their sugarfactory.			Mozambique

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
14	Mozambique holding Ltd Private Comapnay want to do Rubber cultivation for export to African Countries.			Mozambique
15	Reliable Agribusiness Private grower, doing cultivation of vegetable.			Mozambique
16	Seydou Private grower, doing cultivation of vegetable.			Mali
17	Mauritius University, Port Louis It is a university project, where they wanted to grow nursery of various crops in controlled environment.			Mauritius
18	Malawi Mango Ltd It is fruit processing company and needs row materials to run the factory. They have put demonstration farm under drip for growing Mango and Banana.			Malawi
19	Ministry of Agriculture, Borno State, Nigeria This project is made for small scale farmers to become them self sufficient and creating job opportunities in rural area.			Nigeria
20	Ministry of Agriculture, Borno State, Nigeria This project is made for small scale farmers to become them self sufficient and creating job opportunities in rural area.			Nigeria
21	Ministry of Agriculture, Lagos state, Nigeria Nigeria is shortage of food (Rice) and every year they are importing Rice from various countries. Now they want to promote Rice production under sprinkler system. So this is the demonstration plot for Rice cultivation.			Nigeria

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
22	Tony Farms Private commerical Grower, growing vegetables & fruit crops for exporting to Europe.			Nigeria
23	SIAT Plantation Siat Group (Belgium) is involved in Oil Palm & Rubber plantaion in various countries. They want to take more yield under drip irrigation.			Nigeria
24	MINAGRI-Ministry of Agriculture & Animal Resources, Kigali It is govt rehabilitation project allotted 1 ha area to farmer. Project has started from scratch. JISL has implemented project on Turkey basis.			Rwanda
25	Hydro Engineers Ltd It is an innovative demonstrattion Govt project especially installed for small farmer where no power is available.			Rwanda
26	EWSA It is water supply project for drinking purpose in city.			Rwanda
27	Impex Industries It is water supply project for drinking purpose in city.			Rwanda
28	TELKOM Foundation-Rand Water Corp To upliftment of backward people by teaching them agriculture & irrigation right from school level.			South Africa
29	Al-Ansar Drilling Well Private grower, doing cultivation of vegetable.			Sudan

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
30	Jumbo Plastic Private grower, doing cultivation of vegetable.			Tanzania
31	Kakira Sugar Corp It is a well know Private Sugar factory. Because of irratic rainfall, they are loosening their yield of sugarcane and they want to increase yield by sprinkler system.			Uganda
32	DTZ- Naunesti Ranch, Zimbabwe It is a Government project -DTZ-Development Trust of Zimbabwe. They are growing Sugarcane for Sugar factory.			Zimbabwe

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KALPATARU POWER TRANSMISSION LTD.

Kalpataru Power Transmission Limited (KPTL) is amongst the largest players firmly rooted in the global power transmission and infrastructure EPC space since 1981. KPTL has a proven experience and expertise spanning over three decades, which has led KPTL to establish its footprint in over 40 countries spread across the 5 continents, executing distinguished projects with comprehensive capabilities that deliver turnkey solutions covering design, testing, manufacturing, erection, construction and commissioning in the field of power transmission & distribution, substation, oil & gas, infrastructure and railways. KPTL has constructed transmission lines of more than 23,000 km, including Extra High Voltage (EHV) & High Voltage (HV) transmission lines and substation bays (HT/EHV OHL) varying up to 800 kV globally, which includes challenging terrains like snow mountains, desserts, river crossings and more. KPTL has successfully executed projects, which are funded by multi-lateral international funding agencies such as EXIM Bank of India, African Development Bank (AfDB), Japan International Cooperation Agency (JICA), Asian Development Bank (ADB), World Bank (WB), European Investment Bank (EIB), European Bank for Reconstruction and Development (EBRD), Kreditanstalt für Wiederaufbau (KfW), etc. KPTL, with its three Tower Manufacturing Plant with an annual installed capacity of 180,000 MT is among the largest in India. It also has a state of the art Tower testing facility with capability of testing towers upto 800 kV. KPTL is part of the US\$ 1.5 Billion Kalpataru Group, with its standalone revenue for FY 2017-18 poised to cross the US\$ 1.0 Billion mark.



500 kV DC Triple Conductor Transmission Line, Egypt



Kenya



132 kV DC Monopole Transmission Line,
Uganda



330 kV SC Transmission Line at Zambia

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Design, Testing, Supply & Construction of 230 kV Power transmission Line – 495 kms Positive Impact: Enhancing power transmission capability leading to possibility of increasing industrialization and providing electricity to remote areas.	Feb 2015 - Ongoing	Medium to Large	Ethiopia
02	Design, Supply, Construction and Installation of Mombasa-Nairobi 400 kV Transmission Line Project. (A) 400 kV D/C - 164 km (B) 220 kV D/C - 30 km (C) 400kV D/C Line - 231 km (D)220KV D/C Line - 52 km Positive Impact: Enhancing power transmission capability leading to possibility of increasing industrialization and providing electricity to remote areas.	Feb 2015 - Ongoing	Medium to Large	Kenya
03	1. 400kV Over-Head Line – Phombeya to Nkhoma. 2.132kV & 66kV Over-Head Lines Positive Impact: Enhancing power transmission capability leading to possibility of increasing industrialization and providing electricity to remote areas.	Jan 2016 - Ongoing	Large	Malawi
04	Construction of 220 kV Transmission System Kibuye (Karongi) - Gisenyi (Rubavu) - Goma – Kigali (Rwanda Portion) - 176.57 km Positive Impact: Enhancing power transmission capability leading to possibility of increasing industrialization and providing electricity to remote areas.	Feb 2017 - Ongoing	Large	Rwanda
05	Design, Supply, Construction and Installation of the 132 kV D/C Transmission Line Project -. Length - 265km and Mbarara – Nkenda-155kms Positive Impact: Enhancing power transmission capability leading to possibility of increasing industrialization and providing electricity to remote areas.	May 2017 - Ongoing	Large	Uganda
06	Design, Testing, Supply & Construction of 330kV SC Kansanshi-Lumwana Overhead T/L - 72kms And 330Kv S/C and D/C OHTL- 466 kms	Sep 2014 - Oct 2015 (Completed)	Medium to Large	Zambia
07	Design, Testing, Supply & Construction of 230 KV Transmission line Ethiopia – Djibouti Border around 161 Kms	Ap 2014 - Oct 2015 (Completed)	Medium to Large	Djibouti
08	Design, Testing, Supply & Construction of 230 KV Transmission line-around 208 kms	Sep 2014 - Oct 2016 (Completed)	Medium to Large	Ethiopia
09	Supply of 132 kV SC Towers and Line Material for: A. Nekemte - Gida Ayana 132 Kv Transmission Line - 94 km B. Aksta - Alem Ketema 132 Kv Transmission Line - 154 km	Sep 2012 - Ongoing	Medium	Ethiopia

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
10	Supply of Materials for: a) 132kV S/C TL from Beles Hydro Electric Power Plant S/S to new Beles Sugar Factory S/S – 57.1 km b) 230kV D/C TL from Indeselassie to Humera – 33 km	Completed	Small	Ethiopia
11	Supply and Delivery to Inland Warehouse in Jijiga of materials for S/C 132 KV Transmission Line 164 km	Completed	Small	Ethiopia
12	Construction of Olkaria-Lessos-Kisumu Transmission Lines. 400KV D/C TL from Olkaria to Lessos – 213 km	Ongoing	Large	Kenya
13	Construction of HVDC overhead line- 237 km	Ongoing	Large	Kenya
14	Supply and Installation of 33 kV, 11 kV MV and LV Networks of Rural Electrification Project in Six Provinces - 670 km	Completed	Small	Kenya
15	Supply and Installation of 33 KV Lines and Associated Low Voltage Networks - 432 km	Completed	Small	Kenya
16	Design and Build 132 kV Overhead Line Works : 36.4 km	Completed	Small	Tanzania
17	Construction of 220 KV S/C Makambako – Songea Transmission and Rural Electrification Project – 295 km	Ongoing	Medium	Tanzania
18	Design, Supply, and Installation 400 kV Double Circuit Overhead Transmission line between Singida- Babati - 150 km	Ongoing	Large	Tanzania
19	Design, Fabrication, Galvanizing Supply and Erection of 400 KV -160 km line.	Completed	Small	Algeria
20	Design, Testing, Supply & Construction of 400kV S/C El Khemis - Berrouaghia Transmission Line - 66km	Completed	Small	Algeria
21	Design, Testing, Supply & Construction of 400 KV SC LINE EL AFFROUN - BIR GHBALOU, - 103.085 km	Completed	Medium	Algeria
22	Design, Testing, Supply & Construction of 220 kV DC LINES: - 83 km	Completed	Small	Algeria
23	Design, Testing, Supply & Construction of 400 kV - 65km line	Completed	Small	Algeria

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
24	Design, Testing, Supply & Construction of 400KV-50km line	Completed	Small	Algeria
25	Design, Fabrication, Supply and Installation of 400 Kv line- 117 km	Completed	Medium	Algeria
26	Design, Supply, Construction and Installation of 220 kV Ain Ouessara - Berrouaghia - 96 km	Completed	Small	Algeria
27	Design, Supply, Construction and Installation of 220 kV Zahana - Petit lac - 105 km	Completed	Small	Algeria
28	Design, Supply, Construction and Installation of 400 kV Terga - Sid Ali Boussidi 2 - 65 Km	Completed	Medium	Algeria
29	Design, Supply, Construction and Installation of 220kV Tolga - Barika - 80 km	Completed	Small	Algeria
30	Design, Testing, Supply & Construction of 330 kV Luano - Kansanshi T/L - 190kms	Completed	Large	Zambia
31	Construction of Medupi 400 kV S/C Transmission Line Spitskop – Dinaledi (Total Line Length - 112 KM)	Completed	Medium	South Africa
32	Rehabilitation of 500 kV HVDC - 1700 kms & 220 kV S/C & D/C lines - 713 kms	Completed	Large	D.R. Congo
33	Design, Supply, Construction and Installation of 400 kV D/C Inga- Kinshasa Transmission Line- 258 km	Completed	Large	D.R. Congo
34	Supply, Delivery, Installation and Commissioning of 2 X 220 kV lines from Isang S/S to Rakola S/S	Completed	Small	Botswana
35	Supply and Installation of 500 kV Double Circuit Suez Gulf / Samalaut Transmission Line Project - 280 kms	Completed	Large	Egypt
36	225 KV TL Bikongor - Bumbuna (146 KM) & Bumbuna - Yiben (75 Km) Line length - 221 km	Ongoing	Medium	Sierra Leone

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KEC INTERNATIONAL LTD.

KEC International Ltd. is a part of RPG Group, a US \$ 4 billion diversified conglomerate. KEC is one of the largest Power Transmission & Distribution engineering procurement and construction companies operating globally and has transcended boundaries with operations in power transmission, distribution, railways, cables, renewables (solar), civil and smart infra. KEC, a US \$ 1.4 billion company has executed complex projects in tough, inhospitable terrains and continues to grow through localised strategies for each area.

The company's innovative engineering feats include design, manufacture and construction of turnkey projects of power transmission lines up to 1200 kV, setting up high end sub-stations, as well as manufacturing Power/ Control/ Telecom & optical fibre cables and extra high voltage (EHV) Turnkey cabling Solutions. Specialised transmission lines built by KEC International span huge flowing rivers including the Nile in Egypt, Niger in Nigeria, Hoogly & Brahmaputra in India, the deserts of Saudi Arabia, the mountains of Georgia and the snowfields of Kazakhstan and Tajikistan.

KEC has 7 manufacturing units spread across India, Brazil and Mexico, and has one of the largest global Tower Manufacturing capacities, with an annual production capacity of 3,23,000 MTs. The company is the only T&D company with 4 tower testing stations across India and the Americas.

Headquartered in Mumbai, India, KEC has already powered infrastructure development in 63 countries across Africa, Americas, Central Asia, Middle East, South Asia and South East Asia and continues to expand its presence across the globe. The company has more than 5,400 employees comprising of 29 diverse nationalities.



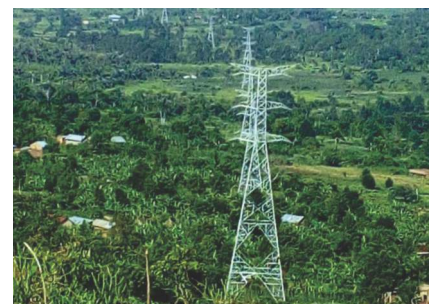
220 kV NKENDA - FORT PORTAL - HOIMA Overhead Transmission Line Project in Uganda, executed by KEC International Ltd.



Ethiopia Kenya Electricity Highway Project (Lot 4) in Kenya, executed by KEC International Ltd.



220 kV TURKWEL - ORTUM - KITALE Overhead Transmission Line Project in Kenya, executed by KEC International Ltd.



220 kV KAWANDA - MASAKA Transmission Line Project (LOT 1) in Uganda, executed by KEC International Ltd.

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	220 kV KAWANDA – MASAKA TRANSMISSION LINE PROJECT (LOT 1), UGANDA Scope: Construction of 137 km double circuit twin conductor Transmission Line from Kawanda to Masaka in Central Uganda. Features / Impact: The transmission line being constructed by KEC International will be a part of the East African interconnection grid, connecting Uganda with Kenya and Rwanda. The project enabled knowledge transfer and skill enhancement of Ugandan teams which empowered them to execute future transmission line projects with lesser assistance from domain experts.	95% complete	Medium	Uganda
02	220 kV NKENDA - FORT PORTAL - HOIMA OVERHEAD TRANSMISSION LINE, UGANDA Scope: Construction of 225.8 km Overhead Transmission Line from Hoima – Fort Portal - Nkenda Features / Impact: This is the first 220 kV line charged in Uganda in the last 5 years and the first EHT line above 132 kV in Western Uganda, which will help boost tourism in these cities. KEC trained and developed skills of over 500 people of Uganda and employed more than 200 locals.	Nkenda – Fort Portal line: Completed Fort Portal - Hoima line – Almost complete	Medium	Uganda
03	ETHIOPIA KENYA ELECTRICITY HIGHWAY PROJECT (LOT 4), KENYA Scope: Construction of 195 km 500kV HVDC Line Features / Impact: This is the first ever 500kV HVDC line in Africa, executed by KEC International. The total transmission line stretch is of 1068 km in total (437 km in Ethiopia & 631 km in Kenya). The 195 km Lot 4 section from Ethiopia border into Kenya is being executed by KEC. The transmission line is being executed in tough terrains and difficult conditions, as 70% of this stretch is in the volcanic rock area and in the heavy wind zone. Tower design work was carried out with utmost caution for this project by KEC's Engineering and Design team.	94% complete	Medium	Kenya



Kindaruma 132kV Substation in Kenya, executed by KEC International Ltd.



Mwingi 132/33 kV Substation in Kenya, executed by KEC International Ltd.

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>A number of local community service initiatives were carried out as part of CSR during the course of this project, such as health and safety campaigns for local employees involving local authorities and KEC staff, provision of water for the community working in the desert areas, and so on.</p> <p>Kenya Electricity Transmission Co. Ltd. (Client) has appreciated KEC's efforts and for the timely completion of the project.</p>			
04	<p>220 kV TURKWEL - ORTUM - KITALE OVERHEAD TRANSMISSION LINE, KENYA</p> <p>Scope: Construction of 138 km 220 kV Transmission Line</p> <p>Features / Impact: This is the first ever 220 kV Transmission Line from Western Kenya (Turkwel) to North West Kenya (Kitale), executed by KEC International. The project is funded by EXIM Bank of India.</p> <p>The transmission line route length is 138 km from Turkwel hydro power plant to Kitale substation, to loop with Ortum Substation. 50% of this line passes through hilly areas and thick forests, for which critical tower design work was carried out.</p> <p>KEC engaged with village committees to provide job opportunities to locals and also trained and developed skills of numerous local Engineers, Surveyors, Supervisors, Technicians and Subcontractors for this project.</p> <p>KEC also organized induction and safety training programs for the workmen to ensure there are no EHS related incidents.</p>	83% complete	Medium	Kenya

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ROZAIKAT AND BENBAN Pumping Stations, EGYPT



BERBER Lift Irrigation Scheme,
SUDAN



Kirloskar split-case pump sets installed at
RAND WATER BOARD, SOUTH AFRICA,
provides drinking water to GAUTENG Province



KBL supplied trolley-mounted pumpsets
for Ministry of Agriculture, Senegal

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Finchaa Sugar Factory- A key strategy of Finchaa Sugar Project at Ethiopia is to boost sugar production, cut sugar imports and ensure the social and economical benefits of citizens. The objective was to make efficient and effective use of the country's natural, human and financial resources and boost sugar production by 4-5 folds by expanding capacities and developing new large-scale plantation.	2013- Completed	Large	Ethiopia
02	Guneid Pumping station- Ensured a source of good quality feed on an annual basis by allocating part of the rotation land to production of fodder crops, hence leading to stability of animal production within the scheme. Grew leguminous fodder crops which fix nitrogen, with a positive impact on the soil and crops that follow in the rotation. Improved the socio-economic conditions and nutrition of farm households. Improve livestock types and veterinary services. Ensured the supply of neighbouring towns with milk, milk products and other animal products.	2004- Completed	Medium	Sudan
03	Djibouti Project- This initiative put the communities in good health and economic conditions. In other words, the adequate drinking water supply constitutes a health guarantee for persons for whom water is the main vector of major diseases that are sometimes fatal because, according the World Health Organization (WHO), 80% of diseases in the world are water-borne. Providing the poor with adequate drinking water in terms of quality and quantity will prevent them from resorting to the often polluted sources	2016- Completed	Small	Djibouti
04	Venus Flower Farm- Kampala - Not so long ago, the flower industry in Uganda was looked at as a non-profitable venture. Most people who wanted fast money shunned the idea of growing flowers, more so for commercial purposes.	2006- Completed	Medium	Uganda
05	Hisco House (Lujeri Tea Estate) - Pumps supplied for tea gardens helped grow, process and export top quality tea, Macadamia nuts, cut flowers and vegetables. It had a significant influence on the lives of a very large number of people in the local community and this influence is evaluated on a continuous basis to ensure that it is increasingly beneficial to all. In 2008 the smallholder farmers whose tea Lujeri processes, were certified as conforming to Fairtrade standards for small farmers organizations. The farmers' community will benefit from the significant Fairtrade price premium paid for such certified tea standards.	2014- Completed	Small	Malawi



KBL supplied trolley-mounted pumpsets for Ministry of Agriculture, Senegal

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KISHORE & COMPANY

KISHORE & COMPANY was incepted in 1980 by Mr. Brij Kishore & group of technocrats and engineers, who were pioneers of this industry with decades of experience in manufacturing of heavy machineries. Over the years our company adopted and integrated latest technologies available worldwide and collaborated with key international players.

This has resulted in bringing together state-of-the-art technologies and equipment being offered on turnkey basis to our clients at competitive prices.

Today, the company has successfully installed and commissioned over 500 small-medium level processing units world over and has grown into being an industry leader, with technical and manufacturing capability to provide complete solution for setting up turnkey projects in the following

Domains -

- Processing and packaging of fruits, vegetables and beverages.
- Machines for Cosmetics
- Waste recycling plants - From Waste Paper to Manufacture Egg Tray etc.
- Pharmaceutical machines
- Soap & Detergent Plant.
- Honey Processing Plant
- Milk processing plants

Only Kishore & Company has the process capability & bandwidth to offer machines ranging from \$100 to \$10 Million hence we are geared up to take assignments of any scale.

Currently we are exporting our machines to South Africa, Mauritius, Tanzania, Nigeria, Kenya, Tanzania, Zambia, Rwanda, Uganda, Ghana, Mozambique, Ivory Coast, Congo, Togo.



Banana & Potato Chips Plant



Instaaltion of boiler for juice plant



Kenya Summit



RO Water Plant

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Maganjo Grain Miller: (Food Processing) <p>Presently, Uganda processes only one percent of its agricultural produce. This indicates that there is a vast potential for agro-based industries. In order to penetrate new markets, and sustain old ones, it is necessary to develop Quality-products that appeal and satisfy the buyers' needs. This can be done by simple appropriate technology equipment. Our machines & technology helped Maganjo Foods to process wheat rice Banana, Into various forms like Powder, Paste etc. which not only provided employment to 100 people but also prevented the loss of perishable material.</p>	2010	Medium	Uganda
02	Coast Development Authority Of Kenya (mango Processing) <p>A mango fruit processing plant has been established in raising the economic hopes of an estimated 10,000 mango farmers. The plant is jointly owned by the Coast Development Authority (CDA) and mango farmers . Bottled mango juice & jams are supplied in the market of Mombasa Due to high poverty levels, farmers would sometimes end up selling premature mangoes just so they could earn a few shillings. "We have increased the shelf-life of mangoes to one year by bottling fruits at source. The products will provide consumers with more options as well as expand our presence in the region as we utilise innovative technologies and rigorous quality controls.</p>	2013	Large	Kenya
03	Incaju Institute (Cashew Processing) <p>In Mozambique, cashew nuts (raw and processed) are the main source of income for over one million rural families. Kishore & Company has helped INCAJU institute in setting up of Cashew processing plants at rural areas which generated employment for over 1000 farmers also helped them monetize their cashew produce by exporting them to foreign countries & also selling them in local market as processed food like cashew powder, cashew paste, cashew curry etc.</p>	2013	Large	Mozambique
04	Torna Global Resources Ltd(oil Mill) <p>Torna global was using traditional or semi-mechanized methods for oil extraction. This method of oil palm processing is arduous, time consuming and oil yield is usually low. Often, about 25% - 75% of potential palm oil was lost during processing. By using latest machines & technology from Kishore & company, the TORNA global increased their production by 70% also reduced the time by 50%.</p>	2015	Large	Nigeria

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LARSEN & TOUBRO (L&T)

Larsen & Toubro (L&T) is an US 17-billion dollar engineering, technology, construction, manufacturing and financial services conglomerate. Recognized by Forbes as one of the most innovative companies in the world, L&T is also ranked 4th in the global list of Green Companies in the industrial sector by the Newsweek magazine. A strong customer-focused approach coupled with strict adherence to global HSE standards and a constant quest for top-class quality has enabled L&T sustains its leadership position for over 75 years.

L&T Construction is the construction arm of L&T. Ranked 25th among the top 250 global contractors by Engineering News Record in 2016; L&T Construction is India's largest construction organization offering EPC solutions with single-source responsibility for executing large industrial and infrastructure projects from concept to commissioning. L&T Construction straddles eight related businesses – Buildings & Factories, Metallurgical & Material Handling, Transport Infrastructure, Heavy Civil Infrastructure, Power Transmission & Distribution, Water & Effluent Treatment, Smart World & Communications with proven capability for executing all types of mega projects on a turnkey basis involving innovative designs, comprehensive construction services that include procurement, supply, installation, testing and commissioning.



400kV AIS Substation, Algeria



500kV Transmission Line, Kenya



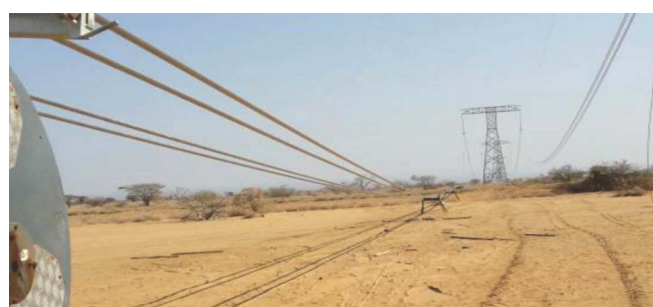
400kV AIS Substation, Algeria

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	500kV HVDC Kenya- Ethiopia Power Interconnection <p>L&T is executing the Engineering, Procurement, Installation and commissioning of the 500 kV double circuit transmission line in Kenya.</p> <p>Impact: This vital power corridor will facilitate power trade between Kenya and Ethiopia while enhancing security and affordability of power supplies, augmenting sustainability by increasing renewable power generation and reducing thermal power emissions. Further, a number of countries in Eastern and Southern Africa are likely to benefit from this powerful scheme with the alignment running across the border regions.</p>	Ongoing	50 MN USD	Kenya
02	400/132kV AIS Substations in Malawi <ul style="list-style-type: none"> L&T is engaged in executing the benchmark power infrastructure projects which is also the first 400 kV substations at Phombeya in Balaka and Nkhoma in Lilongwe. L&T is also executing the construction of a medium voltage distribution substation and underground cabling works from MCA in Malawi, Africa <p>Impact: The construction of these two power substations is a part of the mega \$350.7million Infrastructure Development Scheme funded by the Millennium Challenge Corporation (MCC) of United States. It is the single-sector program designed to develop Malawi's infrastructure and improve the quality of life of the people through sustainable economic growth.</p>	Ongoing	46 MN USD	Malawi
03	400/220kV AIS Substations in Ethiopia <ul style="list-style-type: none"> L&T is executing an EPC order in Ethiopia for the Ethiopian Electric Power which is funded by the French Development Agency for the construction of a 400/230/15 kV substation and three 230/15 kV substations at Akaki, Debrezeit, Dukem, Mojo and Ginchi respectively. These substations are critical for augmenting the energy infrastructure in the country. <p>Impact: Construction of these substations is significant for industrial sector and the railways in and around Addis. The realization of the project would enhance power services around the project area and as well as in Addis Ababa and along the Eastern Electricity Highway</p>	Ongoing	46 MN USD	Ethiopia



400kV AIS Substation, Algeria



Stringing at 500kV Kenya Ethiopia Interconnection Project

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
04	400/220kV AIS Substation at Algeria <ul style="list-style-type: none"> L&T is executing the 2 power substation projects of 60 Mn USD at Algeria The scope includes engineering, supply, civil and installation works, training, commissioning and energizing of Chlef 400/220 kV air insulated substation and Boughzoul 220/60 kV extra high voltage substation The contract encompasses design and construction of civil buildings with a complete set of utilities such as air-conditioning, fire protection and lighting systems The 400kV project is on the verge of being energized Impact: The substation will support the development of Algeria's power infrastructure by enhancing transmission capacity to help meet growing demand for electricity.	Ongoing	50 MN USD	Algeria
05	26 Km of Mauritius Light Rail Transit - Mauritius Metro Express Project (turnkey Project) <p>The 26-km Metro will connect Curepipe to Immigration Square in Port Louis and will feature 19 stations, 2 of which will be state-of-the-art elevated stations.</p> <p>Apart from stations, the scope of the project includes the construction of viaducts & bridges, track works (with substantial ballast less tracks including plinth, embedded and grass tracks), DC electric traction systems, ticketing & passenger information systems and integration with road traffic through advanced signaling systems, procurement of rolling stock from world majors in LRT (Light Rail Transit) and construction of depots along with maintenance equipment.</p> Impact: MLRT is a priority transport infrastructure project that will deliver significant and much-needed travel improvements to the Mauritian population	Ongoing	500 MN USD	Mauritius
06	Water Transmission Line Project- Extension of Lake Victoria Pipeline, Tanzania	Ongoing	USD 107.8 MN	Tanzania
07	400kV Transmission Line and AIS substation Project at Botswana	Yet to start	USD 90 Mn	Botswana

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MSSL GLOBAL RSA MODULE ENGINEERING LTD.

Motherson Automotive Technologies & Engineering (a division of Motherson Sumi Systems Ltd.), is India's leading plastic parts manufacturer, supplying to nearly all the automobile & equipment manufacturers in India. MATE was established in 1997 and has 30 manufacturing facilities in India, Europe, South Africa & Middle East. It is driven by over 9,000 professionals of different cultures and nationalities, and has over 800 machines for Injection, Gas, and Blow Molding.



MSSL Global RSA – Rosslyn Plant



MSSL Global RSA – Durban Plant



Vacuform Plant

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Project Name - Motherson Automotive Technologies & Engineering Manufacturing plant Location – Rosslyn, Gauteng Province, South Africa Area - 27,306 sq. m. Customer - Ford, Nissan and BMW. Major Parts – Fr. & Rr. Bumpers, Instrument Panel, Radiator Grill, Glove Box, Spoiler etc. Positive Impact – Created Employment for over 400 people. CSR activities.	<ul style="list-style-type: none"> - Established May '09. - Machinery Installation started Feb'10. - Full commercial production Jan '11 till now 	Large	South Africa
02	Project Name - Motherson Automotive Technologies & Engineering Manufacturing plant Location – Durban, KwaZulu Natal Province, South Africa Area – 22,000 sq. m. Customer - Toyota. Major Parts – Radiator Grill, Cowl Louver, Mirror Cover, Door Handle, Glove Box, Floor Console Positive Impact – Created Employment for about 400 people. CSR activities.	<ul style="list-style-type: none"> - Established Dec'12. - Machinery Installation started Apr'13. - Full commercial production Jan '14 till now 	Large	South Africa
03	Project Name - Vacuform 2000 Pty Ltd – Joint Venture Location – Rosslyn, Pretoria, Gauteng Province, South Africa Area – 5 052 sq. m. build up Customer – Ford, BMW, VW, MBSA, Nissan, Yang Feng Automotive, Draexilmaier, Faurecia Major Parts – HVAC ducts, Window washer bottles, door insulators, load bin liners Positive Impact – Created Employment for 162 people. CSR activities	<ul style="list-style-type: none"> - Joint Venture from 1 July 2011 - 51% Share purchased in local company - Restructuring and expansion due to JV leading to multi OEM supply contracts 	Medium	South Africa

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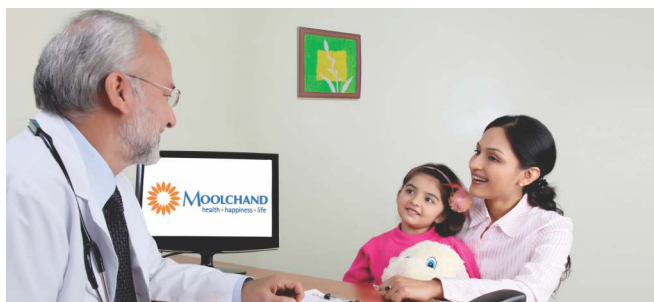
MOOLCHAND HEALTHCARE GROUP

As one of India's foremost names in healthcare, Moolchand has been setting standards for the past half-century. We have emerged as the lifelong healthcare partner of our customers across the globe by delivering their healthcare wishlist: superb physicians, cutting-edge technology, compassionate care, integrity and affordable prices.

We are proud to be in the league of world's leading hospitals who share the prestigious Joint Commission International (JCI) accreditation. Moolchand is India's first hospital to receive JCI and comprehensive NABH (Hospital and Blood Bank) accreditation. Our accreditations and certifications include NABL, ISO 9001:2000, ISO 27001 and ISO platinum. Another milestone in our quality journey is the IMC Ramkrishna Bajaj National Quality Award (an equivalent of the Malcolm Baldrige National Quality Awards, USA) in outstanding achievement in healthcare category.



Moolchand Hospital



Moolchand Medcity Campus

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Moolchand is the only multispecialty hospital in North India and 1 of only 9 hospitals in India, selected by the Ministry of External Affairs, Government of India to be part of its prestigious Pan-Africa E network project.</p> <p>The Pan-African E network project is one of the single largest infrastructure projects in Independent Africa's history (a US \$ 110 million project that covers the entire continent). Through our E health service suite, Moolchand provided real time consultations, treatment and advice for patients in 53 African countries and upgraded the clinical skills and knowledge of practicing medical personnel through continuing medical education in 50+ specialties.</p>	<p>29 May 2008 To 31 March 2017 (Completed)</p>	Large	Pan Africa

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NATIONAL RESEARCH DEVELOPMENT CORPORATION

Being torch bearer in the area of technology transfer in the country, **NATIONAL RESEARCH DEVELOPMENT CORPORATION (NRDC)** has been developing, promoting and transferring technologies/Intellectual Properties emanating from various national R&D institutions, universities and PSUs in the country for more than six decades. NRDC has the largest repository of Indian technologies (about 2,500), filed about 1,700 patents in India and abroad and it has signed 4,900 license agreements so far with entrepreneurs/start-ups/SMEs. NRDC is acting as a bridge between R&D, academic and industry.

National Research Development Corporation (NRDC) has been giving special thrust in projecting India as a source of technology. NRDC's continued efforts to export Indian technologies and services have enabled export of technologies to entrepreneurs both in developed as well as developing countries. The extensive expertise within the NRDC along with the extensive network of national and international contacts in scientific bodies, technology transfer agencies, industrial and engineering concerns ensures the entrepreneurs receive the very best in technology and other services.

PROJECT TITLE
Pilot Research Project for Tomato Production in Ghana

IMPLEMENTATION AGENCIES

1. National Research Development Corporation (NRDC), New Delhi
2. Council for Scientific & Industrial Research (CSIR), Ghana

SOURCE OF FUNDING Ministry of External Affairs, Government of India

Location Ada, Ghana

www.crihid.org / www.cropsresearch.org

Pilot Research Project



Protected Cultivation



High Commissioner Visit to Site



PMC visit to Kumasi

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>NRDC in its efforts to transfer technology to developing countries, mainly in Africa, has implemented a project for setting up a "Pilot Research Project for Tomato Production in Ghana" at three locations, namely Kumasi, Ada, and Navrongo in collaboration with CSIR, Ghana, Ministry of Science, Technology and Environment, Govt. of Ghana with a financial support from MEA, Govt. of India. The objective of the project was to conduct problem-oriented applied research in agro-climatic regions of Ghana with a view to evolve effective cultivation techniques and measures to achieve higher yield of good quality tomato under climatic conditions of Ghana.</p> <p>Cultivation in Polyhouse and open field with different variety of seeds, irrigation methods, fertigation, soil amendments, etc., was completed at all the three sites in 5-acre farms each. In spite of the challenges faced on the project, a lot of experience has been gained that will improve tomato production in Ghana. Apart from the high yield values, the Indian varieties presented better fruit qualities and above all a excellent shelf life.</p> <p>In the harsh environmental conditions faced in the open field by open pollinated lines, it was observed that the tomato varieties had good flowering habits which could be converted into yield. Most varieties also had very good fruit shape. These characters could combine with the higher tolerance to improve tomatoes in Ghana. The project also has upgraded the technical capacity of local staff, especially in production under protective cultivation and has also provided a good infrastructural base for technology transfer to entrepreneurs in Ghana.</p> <p>The use of the fully controlled nursery provided excellent disease free seedlings for the field.</p> <p>Shelf Life of tomato varieties evaluated under the poly-house conditions and found that for some varieties at 63 days when the experiment was terminated still had more than 50% of the fruits in good condition. The fruits had good shape, colour, taste, size and storability.</p>	Completed (2015-17)	Medium	Ghana



Open Field Crop



Closing Ceremony



PMC meeting at Accra

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>The major aim of the project was to help transfer some proven technologies from India to improve tomato production in Ghana. In view of this NRDC deputed three Indian scientists who implemented the project and trained the Ghanaian stakeholders on the project to pick up the Indian concept of production.</p> <p>National Research Development Corporation has transferred following technology to Ghana in Pilot Research Project for Tomato Production at Ghana:</p> <p>Fully Controlled Greenhouse Technology Poly house Technology Drip Irrigation System Mulching Technology (Plastic Mulch and Rice Straw Mulch) Pollination in tomato crop with the help of pollinator Use of Polythene as bird scatters As part of the project a seed processing laboratory was established at all the three centers. Drip, Flood, -Furrow and Sprinkler irrigation systems were evaluated. Also the potential of using the hydrogel as a means of conserving water was evaluated. Some other technologies like the use of neem to control nematodes, use of the marigold flower to control the white fly, sorghum for controlling heat were deployed on the project.</p>			
02	<p>Centre For Demonstration And Promotion Of Technologies For Small And Micro Enterprises</p> <p>The Corporation has set up a Centre for Demonstration and Promotion of Technologies (CDT) at Abidjan, Cote d'Ivoire in association with Ivorian De Technologies Tropicales (I2T) with an objective to promote Indian technologies / machineries suitable for small and micro entrepreneurs in West African countries. The technologies demonstrated at the Centre are in the reach of common people and an example of our willingness to share our expertise, technology and</p>	Completed (2010-11)	Medium	Cote d'Ivoire (West Africa)



Cote d'Ivoire Centre



Machines



CI Briquette Machine

No **Name of the Project and positive impact**

Year and Status of Implementation
(Completed or Underway)

Project Size
(Small/Medium /Large)

Country of Implementation

development experience to African countries. Showcasing the live demonstration of various innovative and simple technologies to the entrepreneurs in these countries helped them to motivate in setting up manufacturing units and development of large number of SME industries in the country. This has helped in converting their natural resources and agriculture produce and reduce the dependency of imports to meet the local demand and also to improve socio-economic conditions of the people.

The Demo Centre was set up for demonstrating and promoting entrepreneurship in small and micro-level entrepreneurs under funding from Government of India and Cote d'Ivoire. NRDC ran the centre for two years and then handed over to Govt. of Cote d'Ivoire. The centre has been a successful one and generated large number (166) entrepreneurs/ MSMEs. The concept of the Technology Demonstration Centre has been well accepted by the people, Govt. agencies and other authorities, industry associations, etc. The Corporation could establish its image around the African countries as source of technology and machines which are appropriate for their countries.

The motivation of entrepreneurs in the host country could stimulate the development of large number of industry

Transfer of large number of appropriate technologies and machines from India

Small Indian machinery manufacturers could able to promote their machines through the centre

Export of raw materials and intermediate products from India could also be possible

Feedback information from entrepreneurs can identify better match making for local requirement

The centre could also act as a hub for information for larger projects in the country



Products prepared at CDT



Products

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Nihilent
evolving ideas

NIHILENT LTD.

Nihilent Limited (formerly Nihilent Technologies Ltd.), incorporated at India, is a South African owned global consulting firm operating in South Africa since inception. Dimension Data, one of the biggest names in the South African ICT sector has invested in Nihilent. In the 18 years of its existence, Nihilent has established its presence across many countries.

Nihilent, a consulting and solutions integration company uses a holistic and systems approach to problem solving. It is unique among other Indian IT companies with operations spanning South Africa and Rest of Sub-Saharan Africa along with North America, UK, Australia and Asia. The company has acquired two global specialist providers of BI and Analytics solutions, and a SAP consulting services provider. Nihilent offers a range of consulting led services including digital transformation, advanced analytics and machine learning, design thinking, management consulting, SAP® implementation & consulting, enterprise IT among others, to businesses across verticals including Banking & Financial Services, Media and Entertainment, Payments, Insurance, Retail, Healthcare, Supply Chain and Logistics, Mobility and Technology & related areas.

A key reason why South African companies continue to engage Nihilent is the value it delivers to clients. Leveraging its vast experience in consulting, design thinking and cutting-edge technology, the company has delivered projects specifically involving creating IP and new business products for its clients.



NITDA-Nihilent eGovernance Awards: Shohel Noor, GM for West Africa at the awards Ceremony



Internship program: A training session in progress



Internship program: A team of interns at Santam

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	National Information Technology Development Agency (NITDA) Nihilent eGovernance Awards <p>The Awards program, the first of its kind in Nigeria, was successful in recognizing efforts made in the design and implementation of ICT initiatives to facilitate better Governance by the Government at various levels. In addition, it also enabled knowledge dissemination on effective methods of designing and implementing sustainable e-Governance initiatives.</p>	2014-2017	Medium	Nigeria
02	Project North Star – Nigerian National Petrochemical Corporation (NNPC) <p>NNPC's R&D organization lacked focus on research and development activities, and had not quite lived up to its onerous mission to carry out research, develop technology and provides services to Oil & Gas industry participants, especially in comparison to other peer NOCs. The R&D setup does not have adequate qualified scientists and researchers, and therefore is largely confined to providing laboratory services.</p> <p>The Enterprise Transformation Practice at Nihilent proposed to carry out workshops and focus discussions with all the relevant stakeholders. The team made recommendations based on bottom-up (to ensure alignment strategy design) and top-down (to give insights about where the organization wants to be) approaches, which were rolled out in a 5-year operational roadmap with key strategic initiatives identified across 12 different themes. Out of which, 7 themes were Technical in nature focusing on overall appraisal of Oil & Gas resources in Nigeria and rest were defined as Foundational Themes, which ensured strong capability building to support Technical themes within NNPC R&D.</p> <p>Business Benefits</p> <ul style="list-style-type: none"> Enhanced R&D's value additions to NNPC group and to the Oil & Gas industry Prepared individuals on solution frameworks required for strategy formulation, execution and tracking Clearly defined Strategy Map & Scorecard Detailed benchmarking study 	(2015) Completed	Medium	Nigeria



Nigerian National Petrochemical Corporation: With the team



No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
03	Internship program for graduates Completed successfully 8 Internship programs for approx. 60 interns for Nedbank, Multichoice, MFSA, IS and Santam Impact of the program <ul style="list-style-type: none"> Helped grow young South African talent and provide learning/growth opportunities Provided opportunities for experimentation & multifaceted exposure for the Interns & manage their aspirations of growth/learning Enhanced client's IT delivery capability/capacity by building a team of young talented IT professionals Enhanced overall delivery quality by instilling culture of discipline and adherence to software life cycle processes. Imbibe the Nihilent way of working and continuous learning in the young talent Assisted client in fulfilling its Corporate Social Responsibility commitments 	2015-Present		South Africa

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OVERSEAS INFRASTRUCTURE ALLIANCE (INDIA) PVT. LTD.

Overseas Infrastructure Alliance (India) Pvt. Ltd. is a well-established, ISO certified and leading project development, execution and management company of India. With clear focus on Africa, we have diverse sector projects in Ethiopia, Mozambique, Tanzania, Republic of Congo, Burkina Faso, Comoros and Rwanda.

We analyse, explore, build and deliver essential nation building projects that are of par excellence. With core expertise in Energy, Agriculture & Agro Processing, Water Management, Transportation Infrastructure, Core Infrastructure and Healthcare, we are building a diversified range of infrastructure assets worldwide which significantly contribute to the skill development, capacity building and socioeconomic development in respective countries.

We implement our projects through a team of highly capable and dedicated professionals that excel in their chosen fields. Their niche expertise lies in identifying development bottlenecks and designing customized solutions along with funding options. Skills are syndicated and products are sourced from an array of high potential alliance partners that are ISO 9001 certified manufacturing and service units.

All our major operations comply with the best quality standards. These include all components of the project building process, ranging from conceptualizing projects, planning, designing, and carrying out feasibility studies, techno-economic surveys, organizing financial closure, environment protection procedures and other vital project quality issues.

At OIA, we are brimming with great ideas that are Feasible, Financeable, Commercially viable, Sustainable and Derisked.



Ethiopian Electric Power Corporation (EEPCo)



Finchaa Sugar Factory



Lindi Water Project, Tanzania



Mozambique Electrification project - Gaza

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Power Transmission & Distribution Project for Ethiopian Electric Power Corporation (EEPCo), Government of Ethiopia is a project undertaken by OIA for building new high-voltage power transmission lines to evacuate electricity from emerging power generation projects. The project aimed to expand transmission and distribution facilities to meet the expected power demand in the inter-connected and self-contained service system areas, which will increase power supply in the region and meet new demand. Design, manufacturing, supply, testing and commissioning of transmission lines, substation, distribution equipment and materials for 132 KV single circuit transmission lines from Hageremariam to Bokuldoma (227.5 km) and Melkawakena to Yadot (168 km) was undertaken by OIA.</p> <p>An outgoing line bay at Hageremariam and Melkawakena substation, 132/33 KV substations at Bokuldoma, Yadot & Kemisse and complete materials for approximately 5,000 km of distribution network including concrete poles were provided by OIA.</p>	Completed (2009)	Large	Ethiopia
02	<p>Tendaho Sugar Factory, Ethiopia (TSF) based in Ethiopia is a green field project which has been undertaken to boost the existing national sugar production by four to five folds through expanding the capacities of the existing sugar factories and development of new large-scale plantation on 60,000 ha. irrigable land.</p> <p>The Tendaho Sugar Factory Project is equipped with world class diffuser extraction technology and high pressure boilers for generating more steam per unit fuel. It has the potential to produce 220 KL of alcohol per day, with captive generated molasses. It has extraction condensing power generation turbines for more power per unit steam. The project is equipped with high energy efficiency, throughput and product quality. It produces refined grade sugar conforming to international standards of less than 45 IU.</p> <p>The project will be completed in two phases and will generate an overall capacity of 26000 TCD at the time of completion</p> <p>Impact: The project has creates over 10,000 local jobs, impacting 1.6 million lives through regional socio-economic development. It has also substantially contributed towards the country's sugar demand and towards achieving the target of 2.25 million tonnes set under the Growth Transformational Plan.</p>	<p>Phase I - Completed; September 2014</p> <p>Phase II - In Progress</p>	Large	Ethiopia



Rwanda Electrification Project



Tendaho Sugar Factory

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
03	<p>Finchaa Sugar Factory, Ethiopia (FSF) is a brown field project undertaken in Ethiopia to expand the capacity from 4000 TCD to 12000 TCD. Developed over 6,800 hectares, it is a state-of-the-art plant with a production capacity of 85,000 tonnes of sugar per annum, the project involves innovative technologies such as a diffuser for Juice Extraction, Co-generation of Power and Ethanol Production and is expected to expand the sugar production to 270,000 tons/annum.</p> <p>The Project is aimed at raising Ethiopia's current sugar production capacity remarkably and make the nation benefit from the sector. The country has a potential of more than 500,000 hectares of land for sugarcane plantation. Through this project, we fully support the government in its multi-sector approach to address the societal and economical concerns of the community and materialize the country's aspirations in the industry.</p> <p>Impact: 11,000 lives have been impacted through socio-economic development at Finchaa region, due to this sugar project. It has also substantially contributed towards the country's sugar demand and towards achieving the target of 2.25 million tonnes set under the Growth Transformational Plan.</p>	Completed March 2011	Large	Ethiopia
04	<p>Lindi Water Supply and Sanitation Project, Tanzania</p> <p>The Lindi Water Supply and Sanitation project covers a distance of 12 kilometers and aims to benefit the entire region of Lindi by providing an additional 7,500 million litres of clean and safe water per day to 82,000 people, a staggering increase of more than 300% from the current daily supply of 2,466 million litres of water.</p> <p>The Project entails a vast spread of construction of water supply and sanitation infrastructure, comprising groundwater collector pipelines. The scope includes construction of a water treatment plant with 7,500 m3/day capacity, a 10-km long DI pipeline, a 1.5 km long PVC gravity and 2 storage reservoirs.</p> <p>The scope also includes construction of a sludge digester for onsite sanitation sludge, provision of an exhauster truck and expansion to Lindi Distribution Network with total length of 27 kms.</p> <p>Impact: Lindi is home to about 250,000 people, and more than 60% of this population (150,000 people) is being currently benefited with this water project. Four existing tanks in Lindi town are already connected to this project. 11 public stand posts (PSPs) have been made available and 24 more are in process of being set up at various locations in Lindi area. 1,100 applications from local households asking for individual water connections are in process currently.</p> <p>The project is also a huge step forward to ensure environmental sustainability, which is one of the eight Millennium Development Goals established by the United Nations.</p>	Completed	Medium	Tanzania
05	<p>Rural Electrification Projects, Rwanda</p> <p>The Energy Water & Sanitation Authority (EWSA) of Rwanda awarded OIA the contract to scale up electricity access through the Sector Wide Approach (SWAP) Development Project (EASSDP). The project deliverables include line survey and design, supply and installation of low voltage and medium voltage lines and service connections in Gikomero Sector Gasabo District of Rwanda.</p>	3 Project Completed and 1 Project under process	Medium	Rwanda

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>Thereafter, the Energy Development Corporation Limited (EDCL) of Rwanda awarded three more contracts to OIA to scale up electricity access through Sector Wide Approach (SWAP) at Muhanga district, Ngororero district and Western Zone. The scope of work of the first project includes deliverables of line survey, design, supply and installation of low voltage and medium voltage lines and service connections in these regions.</p> <p>Scope and Impact:</p> <p>Project I - Gikomero Sector, Gassabo District – Completed (Sept. 2014) Scope: MV Lines 20.22 km LV Lines 27.60 km Transformer 14 Nos. Impact: Consumer Connections 1,184 Nos. Villages Electrified 14 Nos.</p> <p>Project II - Muhanga District, Southern Province – Completed (Jan. 2016) Scope: MV Lines 79.38 km LV Lines 48.48 km Transformer 47 Nos. Impact: Consumer Connections 2,064 Nos. Villages Electrified 47 Nos.</p> <p>Project III - Ngororero District, Western Province – Completed (June 2016) Scope: MV Lines 55.00 km LV Lines 109.86 km Transformer 49 Nos. Impact: Consumer Connections 4,188 Nos. Villages Electrified 49 Nos.</p> <p>Project IV - Western Zone (Lot-3, Lot-5 & Lot-8) - In progress Scope: MV Lines 228.00 km LV Lines 358.00 km Transformer 204 Nos. Impact: Consumer Connections 12,133 Nos. Villages Electrified 204 Nos.</p> <p>Project V - Eastern Province(Feb 2018) Scope: MV 149 10 KM/ LV 264 KM/ Transformer- 129</p> <p>Project VI - Southern Province(Feb 2018) Scope: MV 221 KM/ LV 187 KM/ Transformer- 134</p>			
06	Rural Electrification in Gaza Province, Mozambique	Completed July 2015	Large	Mozambique
07	Rural Electrification in Niassa, Cabo-Delgado & Manica Provinces, Mozambique	Completed August 2017	Large	Mozambique
08	Chalinze Project: Rehabilitation of Chalinze water treatment plant, supply and installation of secondary and Tertian's distribution Network and construction of reservoir in Chalinze villages.			
09	18mw HFO Base power generation and transmission			Comoros
10	Rural Electrification.			Burkina Faso
11	Rural electrification and transmission project in ROC			Republic of Congo

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PRAJ INDUSTRIES LTD.

Praj is a global company driven by innovation and integration capabilities. Praj's business verticals comprise –

- 1. Bio-energy** – a complete suite of solutions for ethanol industry viz. multi-feed multi-product plants, modernization of existing plants, renewable fuels like BioCNG, iso-butanol etc.
- 2. High purity water solutions** – Praj HiPurity Systems Limited, a wholly owned subsidiary, provides high purity water solutions to pharma, biotech, cosmetics and F&B industries
- 3. Engineering led businesses –**
 - a. Critical process equipment & systems – leveraging its engineering and manufacturing capabilities, this business caters to the global oil & gas and related downstream sectors
 - b. Brewery engineering – Praj has been a trusted partner for global brewers with its integrated and energy efficient brewery plants and systems

All the offerings are backed by research and development carried out at Praj's world class research center called Matrix, located in India.

Praj is also geared up for the next gen 2nd generation cellulosic ethanol technology. Company's demonstration plant of 1 mn liter per annum production capacity is located in India. This integrated plant, complete with a wastewater system, is capable of processing a variety of agri-residues like corn cobs & stover, rice & wheat straw, cane trash, cotton stalk etc. The plant was inaugurated at the hands of Mr Nitin Gadkari, Union Minister of Road Transport, Highways & Shipping, Govt of India earlier this year.

Praj has been a trusted partner for clients worldwide and commands over 750 references in 75 countries. Praj has offices in Thailand, Philippines, USA apart from a robust R&D and manufacturing base in India.

Praj has 4 strategically located and well connected manufacturing facilities in India. These are accredited with ASME U, U2, R stamps and have proven capability in manufacturing equipment in compliance with the global standards.

Praj employs more than 1200 professionals in India and overseas from various engineering and other disciplines.

Praj Foundation – CSR arm of the company, undertakes many projects for community welfare.



Praj references in Africa



Kakira Sugar Ltd

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Kakira Sugar Ltd – a complete environmentally sustainable plant <ul style="list-style-type: none"> Feedstock – sugarcane molasses Capacity – 60000 liter/day Products – fuel ethanol, extra neutral alcohol Co-products – fertilizer Salient features <ul style="list-style-type: none"> Steam self-sufficiency Caters to 40-50% of its own power requirement with the help of cogen unit Effluent treatment for conversion into biocompost to renew soil fertility Country's first plant which is ready to produce fuel ethanol and supply to the ethanol blending program Positive impact <ul style="list-style-type: none"> Gives confidence to the policy makers about the availability of locally produced fuel ethanol for kick-starting the blending program Energy sufficiency and converting effluent into useful biogas and fertilizer makes the plant more environmentally sustainable Employment generation – the ethanol complex has generated about 30-50 jobs of various capacities. 	Completed in 2016	Large	Uganda
02	Addax Bioenergy SA – a milestone in sustainability <ul style="list-style-type: none"> Feedstock – sugarcane syrup Capacity – 380,000 liter/day Products – fuel ethanol, co-products – power, fertilizer Salient features <ul style="list-style-type: none"> The only plant in Africa to be certified by Roundtable on Sustainable Biomaterials (RSB)–recognition of sustainable practices Registered as a Clean Development Project under UNFCCC Framework on climate change Caters to 20% of the country's power requirement Vapour absorption system for energy saving With addition of module to process cassava chips, the plant can operate on 'dual feed' 	Completed in 2014	Large	Sierra Leone



Addax Bioenergy



Illovo Distillers (Tanzania) Limited

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	Positive impact <ul style="list-style-type: none"> Development of 10,000 hectare of sugarcane plantation Export of fuel ethanol to European Union - positive contribution to the country's economy GHG savings – 56,000 MT/ year Excess power of 18 MW supplied to the national grid Employment generation – the ethanol complex has generated hundreds of jobs of various capacities 			
03	Illovo Distillers (Tanzania) Limited <ul style="list-style-type: none"> Feedstock – sugarcane molasses Capacity – 40,000 liter/day Products – extra neutral alcohol Co-products – Fertilizer Salient features <ul style="list-style-type: none"> Project is designed, engineering and constructed to the high degree of standards as demanded by Illovo Effluent and waste water treatment complies with the stringent local norms Positive impact <ul style="list-style-type: none"> Safe & quality beverage grade alcohol for the local and neighboring East African market Employment generation – the ethanol complex has generated about 30-50 jobs of various capacities 	Completed in 2013	Large	Tanzania
04	PressCane Limited – Largest plant in Malawi, serving the ethanol blending program <ul style="list-style-type: none"> Feedstock – sugarcane molasses Capacity – 60,000 liter/day, subsequently expanded to 90,000 liter/day Products – fuel ethanol, rectified spirit (industrial applications) Salient features <ul style="list-style-type: none"> Largest ethanol plant in Malawi Malawi has 20% ethanol blending mandate. PressCane supplies to the local oil marketing companies. Employs waste water recycle and reuse for water conservation Positive impact <ul style="list-style-type: none"> Supports Malawi's ethanol blending program, saving forex outgo on imported crude oil Reduced water consumption for the plant Employment generation 	a. First project Completed in 2004 b. Expansion completed in 2016	Large	Malawi

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
05	Mumias Sugar Company Limited <ul style="list-style-type: none"> Feedstock – sugarcane molasses Capacity – 80,000 liter/day Products – fuel ethanol, extra neutral alcohol Salient features <ul style="list-style-type: none"> One of the first sugar mills in Kenya to diversify to ethanol Superior quality beverage alcohol endorsed by internationally renowned buyers Future ready for fuel ethanol supply to the country's ethanol blending program Zero liquid discharge unit Positive impact <ul style="list-style-type: none"> Mumias, after meeting the domestic market demand, exports to neighboring markets, earning export revenue for the country One of the largest exchequer revenue in Kenya Employment generation – the ethanol complex is estimated to have generated about 50-80 jobs of various capacities 	Completed in 2012	Large	Kenya

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SHAPOORJI PALLONJI AND COMPANY PVT. LTD.

With a rich legacy of more than 150 years of delivering iconic projects, the Shapoorji Pallonji Group has grown from a general contracting company, into a diversified business conglomerate which prides itself in having partnered the growth of its clients, who time and again have vested their trust and faith in the Group and the values that it stands for.

Together, the Shapoorji Pallonji Group offers its clients complete solutions in all the businesses it is into

- 1. Engineering & Construction** – Industrial, Commercial, IT Parks, Automobile, Residential, Hospitality, Healthcare and Stadia
- 2. Infrastructure – Rail, Ports, Marine** – Offshore & Onshore, Oil & gas, Power, Transportation.
- 3. Real Estate** – Commercial, Luxury Apartments, Affordable Housing, IT, ITes, SEZ
- 4. Water** – Water Purifiers, Waste water management, Industrial Water treatment
- 5. Power & Electricals** – MEP, HVAC, Data Centre, Solar EPC, Transmission lines, DG sets, LT/HT Panels, Co-gen.

Today SP Group has presence in around **60 countries** worldwide, with a more entrenched presence in Middle East and Africa since 1971 when we constructed the palace for HM Sultan Qaboos.

SP Group is over **35,000 employees** strong with over 20 nationalities contributing towards the shared vision; more than 8,000 of which are fully-qualified engineers. Our group revenues in this fiscal will be upwards of USD 5 billion, with around a third coming from international operations outside India.

In addition to above, SP Group is continuously expanding its horizon of services in many more new segments, in order to serve our existing and potential customer as a complete solution provider.



Seat of Government & Presidency, Accra



New National Assembly Building, Banjul, Gambia

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	Seat of Government & Presidency, Accra Salient Features Segment : Special (Presidential Place) Client : Government of Ghana Built-Up Area : 322,800 sqft Contract Type : Design & Build Figuring in the top ten best presidential palaces in the world Shapoorji Pallonji was awarded this project on Design & Build model which was completed in Ghana (West Africa) within a record time of less than 30 months & applauded, for the state of the art Design & Workmanship of this Landmark project.	Completed	Large	Ghana
02	New National Assembly Building, Banjul, Gambia Salient Features Segment : Special (Assembly Building) Client : Ministry of works construction & Infra Built-Up Area : 123,740 sqft Contract Type : General Contract Located in the capital city of Banjul, the project is one of its kind with a unique design of elliptical shape Shapoorji Pallonji's scope of works involved construction of the New National Assembly Building Package 1, 1A and 2B (1 - Civil, Façade and MEP Works, 1 (A) - Interior Finishing, MEP works and Contracting Authority's (MOWCI) requirements for Supervision of the works and 2(B) External Site Development Works).	Completed	Large	Gambia
03	Yumn Power Ltd: 2 X 35MW Peat Fired Power Plant, Rwanda Client : Yumn Power Ltd with equity investment from • Hakan Mining & Electricity Generation Inc. • Quantum Power, UK • Themis Advisory LLC, Turkey Project : 2 x 35 MW (net) peat based plant Contract type : EPC Major OEM : M/s Andritz, Finland for Boiler Completion Period : 36 months Salient : • First Peat Fired Plant in Africa Features : • Bubbling Bed (BFB) boiler technology from Finland	Underway	Large	Rwanda



No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	Corporate Social Responsibility <ul style="list-style-type: none"> The peat power plant will employ around 200 employee and will require support services To prepare the peat area, the top part of the peat land will be removed and this fertile soil will be used for agriculture in neighboring areas. Drinking water will be made available to neighboring villages by installing small filtering units which will filter river water or ground water Depending on the needs of the population, feasibility studies will be launched to investigate the possibility to provide farming irrigation and electricity to neighboring villages and infrastructure buildings After peat is extracted from peat bogs, rain and river water will fill the empty bogs which will create artificial lakes of 10m deep which are extremely suitable for fish farming 			
04	Mass Housing, Setif Salient Features Segment : Residential Client : CNEP Banque Built-Up Area : 2,280,000 sqft Contract Type : Design & Build A massive residential community having 2000 affordable residential units SP was involved as a General Contractor and provided end to end services for construction and completion of the project. Modular tunnel form was used to accelerate the project that allowed casting of walls and slab in one operation on a daily cycle.	Underway	Large	Algeria
05	Hilton Hotel, Sierra Leone Salient Features Segment : Hospitality Client : Cape Sierra Hotel Company Built-Up Area : 237,000 sqft Contract Type : Design & Build A premier Five Star business hotel of 200 keys complimented with an infinity pool & poised to be the tallest building in Sierra Leone The scope of works includes the design, construction & completion of the 9 storeyed premium hotel situated on the unique Cape Sierra Peninsula overlooking the local coastline which includes one of the largest natural harbours of the world.	Underway	Large	Sierra Leone

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
06	Maternity Hospital, Douera	On-going		Algeria
07	Mass Housing, Oran	On-going		Algeria
08	Referall Hospital, Ain Defla	On-going		Algeria
09	Sidi Abdellah University, Algiers	On-going		Algeria
10	6000 seats University, El Tarf	On-going		Algeria
11	Mass Housing , Accra, Ghana	Completed		Ghana
12	Gambia University, Gambia	On-going		Gambia
13	Village of Information Technologies and Biotechnology, Cote D'Ivoire	On-going		Cote d'Ivoire
14	Hilton Hotel, Lagos	On-going		Nigeria
15	Cancer Hospital, Lagos	On-going		Nigeria
16	New Bank Headquarter , Togo	On hold		Togo
17	Cyber Tower	Completed		Mauritius
18	Les Pailles Exhibition Centre	Completed		Mauritius
19	Al Fatah Tower	On hold		Libya
20	Tripoli Gate Tower	On hold		Libya

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STERLING & WILSON PVT. LTD.

Sterling and Wilson is an excellent example of how the Shapoorji Pallonji family has nurtured long term associations with its business partners. The Mistry and Daruvala families have been partners in Sterling and Wilson for 3 generations. This partnership will only grow stronger, as the 4th generations of both families have recently joined the business.

Over the past 5 years, Sterling and Wilson has shown exceptional growth; with operations all over the globe, as well as an expansion in its range of services. The company's turnover has shown an extremely positive growth. From a turnover of INR 1,760 crore in 2012, Sterling and Wilson group crossed a turnover of INR 6200 crore last year as is likely to exceed INR 10,000 crore in the year ended March 2018. From being a predominantly India focussed company in 2010, Sterling and Wilson now operates across the Middle East, Africa, Australia and Europe. In the current year, the company is expanding to the USA and South America. From being a company that was mainly focussed on doing MEP projects in India, Sterling and Wilson over the past 5 years has set up global operations in manufacture of DG sets, Gas based power plants, Waste to Energy, Turnkey data centres, Transmission and Distribution and Solar EPC. With its recent forays into wind and energy storage, Sterling and Wilson is perfectly poised to play a pivotal role in the global trend of moving away from thermal plants to a future of renewable energy with storage.



Presidential Palace, Accra, Ghana



South Africa 90 MWp De Aar 3
Solar PV Project



Kipe Sheraton Hotel, Conakry, Guinea



Hilton Hotel, Free Town, Sierra Leone

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	South Africa 90 MWp De Aar 3 Solar PV Project Positive Impact: <ul style="list-style-type: none"> Electricity Generation from Clean source replacing thousands of tons of carbon emissions Adherence to Criteria for Local Content Requirements: Business Opportunities for local supporting industries. Partnership with Local Black Business Community: Empowerment of Black Community Increased employability of local workforce for solar PV Projects in future 	Completed & Commissioned on 2nd April 2016	90 MWp (Large)	South Africa
02	Morocco 175.5 MWp Solar PV Projects (Three Projects) under Noor PVI Program Positive Impact: <ul style="list-style-type: none"> Electricity Generation from Clean source at very competitive tariff reducing thousands of tons of carbon emissions Industrial Integration (through local content): Maximum possible items from Morocco Employment Generation (more than 90% jobs created locally) Increased employability of local workforce for solar PV Projects in future Optimal usage of water during Operations & Maintenance Phase 	Under-Construction	71.5, 84.5 & 19.5 MWp (Large)	Morocco
03	Egypt 322 MWp Solar PV Projects (Five Projects) Positive Impact: <ul style="list-style-type: none"> Electricity Generation from Clean source, reducing thousands of tons of carbon emissions & dependency on fossil fuels Employment Generation for local workforce (overall 2000 during construction) Development of employability in Local workforce for solar PV Projects in future Saving of water during Operations & Maintenance Phase through dry cleaning of modules 	Under-Construction	62 MWp & 4*65 MWp (Large)	Egypt



National Assembly Building, Banjul, Gambia



Hotel Royal Continental, Niamey, Niger



Mecure Oncology Center, Lagos, Nigeria

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
04	Kipe Sheraton is 300 Room Luxurious Hotel located in Conakry, Guinea Sterling and Wilson has done complete MEP works comprising of chillers, DG sets, Sewage treatment plant, Water treatment plant, Boiler, Complete low voltage system, flue gas piping, diesel storage and distribution system and entire Electrical Works.	Complete	(Large)	West Africa
05	Hilton is 202 Rooms 7 Star Hotel located at Capital of Sierra Leone i.e Free Town Sterling and Wilson has done Design and Built MEP works comprising of Tri Generation system, VRF System, DG sets, Sewage treatment plant, Desalination Plant, Boiler, Complete low voltage system, flue gas piping, diesel storage and distribution system and entire Electrical Works.	Complete	(Large)	West Africa
06	Zambia 54 MWp Solar PV Project	Under-Construction	48 MWp (Large)	Zambia
07	Niger: 7 MWp Solar PV Project	Under-Construction	7 MWp (Medium)	Niger
08	Namibia: 48 MWp Solar PV Project	Under-Construction	48 MWp (Large)	Namibia
09	Presidential Palace, Accra, Ghana Scope Of Work: Design And Build Mep Works	Complete	Large	Ghana
10	National Assembly Building, Banjul, Gambia Scope Of Work: Design And Build Mep Works	Complete	Medium	Gambia
11	Hotel Royal Continental, Niamey, Niger Scope Of Work: Design And Build Mep Works	Underway	Large	Niger
12	Mecure Oncology Center, Lagos, Nigeria Scope Of Work: Design And Build Mep Works	Underway	Large	Nigeria

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STERLING & WILSON POWERGEN PVT. LTD.

Sterling and Wilson Powergen Pvt. Ltd., is headquartered in Mumbai and has its regional & branch offices spread across the country. It is managed by the best minds in the industry, who bring in a solution based approach towards its customers.

Today, Sterling and Wilson Powergen Pvt. Ltd., is known for its endearing project management skills and service capabilities that help them provide round the clock support across India, Middle-East, Africa, Australia with tailor-made solutions. We have assembly units in Nigeria, U.A.E and India. Our Indian assembly facility located in Silvassa, is one of the largest in Asia.

We offer "One stop solutions" to our customers. We provide a comprehensive range from 9 kVA to 3000 kVA Diesel Generators powered by Perkins, mTU, Volvo Penta, Mahindra Navistar and Escorts Engines. We have the expertise to successfully meet the specific and challenging requirements of a variety of individual and institutional users by offering top of the line products and services.



Electrification of 5 Towns in Guinea Bissau



Bauxite Ore Export Facility – Guinea



DG for Sugar Factory in Ethiopia



Open DG set for Cadbury Factory Nigeria

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Electrification of 5 Towns in Guinea Bissau – Our client Seftech India Pvt Ltd. has awarded us SITC job of 5X1500 kVA Diesel Generators with fuel system, cooling system and control panels.</p> <p>The project was crucial in terms of stringent deadlines and quality work. The Generators were used to supply electricity to the 5 towns through 33 kV sub-stations.</p>	Completed 2017	Medium	Guinea Bissau
02	<p>Bauxite Ore Export Facility – Guinea: Our client Shapoorji Pallonji awarded us SITC job of 10 X 2250 kVA Diesel Generators with complete fuel system, cooling system and synchronizing panels.</p> <p>The new Bauxite ore export facility will be powered by our reliable generators. The export facility will provide employment to locals and earn foreign currency for the local government.</p>	Underway 2018	Large	Guinea
03	<p>Cement Plant Djibouti – We have provided an integrated power solution, which includes the SITC job of 10X1010 kVA Diesel Generators, Synchronization panel, Bulk Fuel Tank, Automated fuel system, cooling system and control panels.</p>	Completed 2014	Large	Djibouti
04	<p>Sugar Factory Ethiopia – We have executed two SITC job for Sugar factories in Ethiopia. One projects have 3 Diesel Generators DG sets of 1500 kVA each and the other project have 1X1700 kVA and 1X750 kVA.</p>	Completed 2015	Medium	Ethiopia
05	<p>Cadbury Factory Nigeria- Through our Nigeria office, we have executed a SITC job of 2X1500 kVA Diesel Generators. The Dg sets were successfully tested at site for more than 24 hours. The plant runs smoothly and production is on full swing.</p>	Completed 2017	Medium	Nigeria

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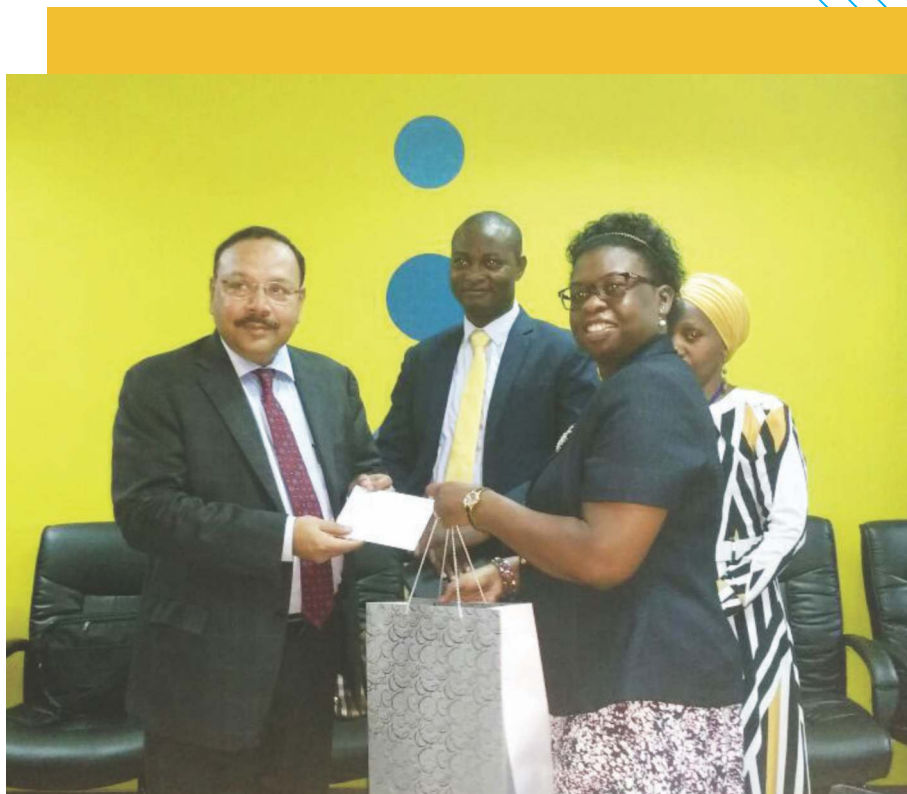
Web: <http://www.sterlinggenerators.com>

TATA CONSULTANCY SERVICES

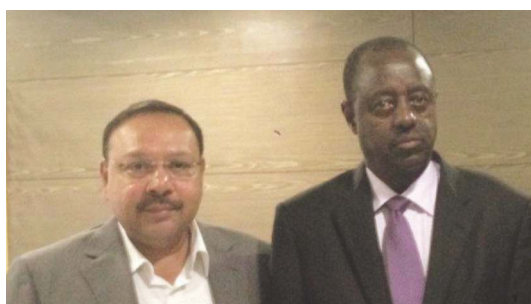
Tata Consultancy Services (TCS) is an IT services, consulting and business solutions provider that has been partnering with the world's largest businesses in their transformation journeys for the last fifty years. TCS offers a consulting-led, cognitive powered, integrated portfolio of business, technology and engineering services and solutions. This is delivered through its unique, location-independent Agile delivery model, a benchmark of excellence in software development.

A part of the Tata group, India's largest multinational business group, TCS has over 390,000 of the world's best-trained consultants in 46 countries. The company generated consolidated revenues of US \$17.6 billion for the year ended March 31, 2017 and is listed on the BSE (formerly Bombay Stock Exchange) and the NSE (National Stock Exchange) in India. TCS' proactive stance on climate change and award winning work with communities across the world have earned it a place in leading sustainability indices such as the Dow Jones Sustainability Index (DJSI), MSCI Global Sustainability Index and the FTSE4Good Emerging Index.

TCS has been working in the African Continent for implementation of IT Solutions for over 10 years. It has delivered successful transformational engagements for the Revenue Authorities of the Governments of Kenya, Rwanda, Uganda and Zambia, and Customs Information System for the East African Community. A few of the successful projects implemented for Revenue Authorities in Africa are listed below:



Mr Tanmoy Chakrabarty (VP and Head - Government Industry Solutions Unit, TCS) with Ms. Doris Akol (Commissioner General, URA)



Mr Tanmoy Chakrabarty (VP and Head - Government Industry Solutions Unit, TCS) With Mr. John Nasasira (ICT Minister, Uganda)



Signing of Contract between URA and TCS for Integrated Tax Administration System

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Uganda Revenue Authority - Integrated Tax Administration System (ITAS)</p> <p>About Customer</p> <ul style="list-style-type: none"> Uganda Revenue Authority (URA) was set up on September 5, 1991 by the URA Statute No. 6 of 1991. URA administers 10 Taxes (VAT, PAYE, Income Tax, Withholding, Gaming & Pool Betting, Motor Vehicle, Stamp Duty, Import Export, LED, and Driving Permit) and is responsible for collection of taxes for Uganda. URA also advises Government on matters of policy relating to all revenue, whether or not this revenue is specified in the statute. <p>Project Name</p> <p>Integrated Tax Administration System (ITAS) for URA.</p> <p>About Customer</p> <ul style="list-style-type: none"> Requirement Analysis, Business Process Re-engineering, Design and Implementation of Back Office Application as well as Web Portal Data Migration Change Management User Training Warranty Support for 1 Year Post Implementation Support for 5 Years <p>Extended Support for 7 Months from Jan-18 to Jul-18</p> <p>Earlier from Jun-08 to Dec-17, TCS had direct contract with URA. However now this contract is novated to TATA Uganda Limited.</p> <p>Now the engagement model is changed from New support - Jan-18 onwards</p> <p>End to End contract</p> <p>TUL is the primary supplier and has contract with URA for the support of ITAS for 7 months from Jan-18 to Jul-18.</p> <p>Tata Uganda Ltd (TUL) has subcontracted TCS for the same.</p>	June 2008 – December 2017 (Now support is extended to July, 2018 end)	Large	Uganda



Steering Committee Meeting between URA and TCS



EAC - Representatives from TCS and 5 East African Countries - Burundi, Kenya, Rwanda, Tanzania, Uganda

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
02	<p>Kenya Revenue Authority - Integrated Tax Management System (ITMS)</p> <p>About Customer</p> <ul style="list-style-type: none"> Kenya Revenue Authority(KRA) administers 12 Taxes (VAT, PAYE, Income Tax Individual & Non-Individual, IT Company, IT Partnership, Turnover Tax, Withholding, Excise, Stamp Duty, Standard Levy, Sugar Levy and other agency revenues. It is responsible for collection of taxes for Kenya. KRA also manages custom and road transport related collections and transactions. <p>Project Name</p> <p>Integrated Tax Management System (ITMS) for KRA.</p> <p>End to End contract</p> <p>TAHKL is the primary supplier and has contract with KRA. Tata Africa Holding Kenya Ltd (TAHKL) has sub-contracted TCS for the same.</p> <p>Project Scope</p> <ul style="list-style-type: none"> Application & Web Portal <ul style="list-style-type: none"> Requirement Gathering and Analysis, Design Development / Customization of Application Software and Web Portal (Total 17 Modules) Modules - Phase 1 – Registration, Returns, Bank Collection, Central Parameters Mgmt., Security mgmt. Modules - Phase 2 - Taxpayer eServices & Web Portal (TPS), Taxpayer Accounting, Workflow Management, Compliance & Monitoring, Audit, Debt & Enforcement, Refunds, Payment Plan & Processing, MIS, Tech Support Services, External Interfaces Data Migration of existing legacy data Capacity Building & Application Training to KRA Users UAT Support and Roll-Out of Application and Web Portal Warranty Support for 6 Months – Completed Support – 3 Years 10 Months – In Progress 	Sep 2011 – Mar 2018	Large	Kenya
03	<p>Zambia Revenue Authority - TaxOnline</p> <p>About Customer</p> <ul style="list-style-type: none"> Zambia Revenue Authority(ZRA) was formed on 1st April 1994 as a corporate body, under the Zambia Revenue Authority Act No. 23 of 1993 Direct Taxes and VAT Divisions merged into one division called Domestic Taxes Division in December 2006 ZRA administers 11 Taxes (Value Added Tax, Income Tax, PAYE, Turn Over Tax, Property Transfer Tax, Mineral Royalty Tax, Medical Levy, Withholding Tax, Excise, Base Tax and Presumptive Tax) and is responsible for collection of taxes for Zambia. <p>Project Name</p> <p>TaxOnline for ZRA</p>	November 2012 – January 2020	Large	Zambia

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	Project Scope <ul style="list-style-type: none"> Infrastructure Analysis & Specification Requirement Gathering and Analysis Tax-Online Application and Web Portal Delivery split in Phase-1 and Phase-2 Data Migration UAT Support User Training Operational Acceptance Testing – 1 Month Warranty – 1 Month Support – 5.5 Years – In Progress 			
04	East African Community - Customs Information System About Customer <ul style="list-style-type: none"> The East African Community (EAC) is the regional intergovernmental organization of the Republics of Burundi, Kenya, Rwanda, Uganda and the United Republic of Tanzania, with its headquarters in Arusha, Tanzania. EAC countries established a Customs Union in 2005 under the East African Community Treaty. It aims to improve and enhance co-operation among the Partner States in economic, social, cultural and political terms. EAC also aims to standardize and integrate the Valuation and Risk Management data across all Partner States and provide a harmonized, unified and integrated view of business intelligence to the Partner States which will enable the cross leverage of intelligence amongst all 5 Partner States. Project Name Customs Information System for EAC (EACCIS). Project Scope Implementation of <ul style="list-style-type: none"> Customs Valuation Module Risk Management Module Overall Scope <ul style="list-style-type: none"> Requirement Analysis System Design Construction Testing Data Migration User Training Operational Acceptance Testing Full scale rollout Warranty Support of 12 months 	May 2016 – August 2018	Medium	Project is based at Arusha, Tanzania. However its implemented for 5 countries of East African Community - Burundi, Kenya, Rwanda, Tanzania & Uganda.



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TATA MOTORS LTD.

Tata Motors Limited, a USD 42 billion organization, is a leading global automobile manufacturer with a portfolio that covers a wide range of cars, sports vehicles, buses, trucks and defence vehicles. Our marque can be found on and off-road in over 175 countries around the globe. Tata Motors is part of the USD 100 billion Tata group founded by Jamsetji Tata in 1868. Sustainability and the spirit of 'giving back to society' is a core philosophy and good corporate citizenship is strongly embedded in our DNA.

Tata Motors is India's largest automobile company. We bring to the customer a proven legacy of thought leadership with respect to customer-centricity and technology. We are driving the transformation of the Indian commercial vehicle landscape by offering customers leading edge auto technologies, packaged for power performances and lowest life-cycle costs. Our new passenger cars are designed for superior comfort, connectivity and performance. What keeps us at the forefront of the market is our focus on future-readiness and our pipeline of tech-enabled products. Our design and R&D centres located in India, the UK, Italy and Korea strive to innovate new products that achieve performances that will fire the imagination of GenNext customers.

Across the globally dispersed organization that we are today, there is one thing that energizes and drives all our people and our activities – and that is our mission “to be passionate in anticipating and providing the best vehicles and experiences that excite our customers globally”.



Changing the face of public transportation in Cote d'Ivoire with supply of 562 units of buses (including support veh)

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
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01 Changing the face of public transportation in Cote d'Ivoire with supply of 562 units of buses (including support veh)

In 2014, discussions started between Tata Motors Ltd and SOTRA (Société des transports Abidjanis) to help improve the public transportation in the commercial capital of the country, Abidjan. Acknowledging the robustness, easy maintainability and "value for money" Tata Buses, negotiations were initiated for a fresh start. The objective was to provide a world class transport solution to the citizens of Abidjan supporting the ambitious "Grand Abidjan" initiative.

A team of Tata Motors Personnel was sent to Cote d'Ivoire to study local operating conditions, interact with the SOTRA team and to suitably capture the voice of the customer. A close-knit cross-functional team worked on converting the voice to engineering solutions. Many changes were made on the bus to meet customer expectations. The new version of Rear Engine Semi Low Floor Bus- LPO 1924 RESLF took shape. It was not a new product, but the high level of customization made it quite different from its predecessors.

A bus was sent to Abidjan for on ground trials. The trial bus performed under real-life conditions in Abidjan and met the expectations. An after-sales package was devised which saw a separate budget for spare parts for two years, and additional funding to upgrade SOTRA's equipment and facilities.

The project was financed by EXIM Bank of India under their highly user-friendly scheme- Buyers Credit under National Export Insurance Account of India (BC-NEIA). The finance thus provided was for long tenure and at a very competitive interest rate making it very cost effective and easy to pay back.

Two of the important features of the deal were- extensive training being provided by Tata Motors personnel for a period of 1 year and the Spare Parts supplies for 2 years against the requirements of SOTRA ensuring the availability of right part at the right time without overstocking the spare parts.

SOTRA confirmed their first order of 562 buses and support vehicles in August 2016. From April 2017, the people of Abidjan started commuting in the comfort of modern Tata Motors buses.

SOTRA along with Tata Motors with its rich experience in public transport is now ensuring a safe, clean and affordable transport system, thereby improving the livelihood opportunities for the Abidjan Citizens and also giving them greater access to education, healthcare and recreation. As an urban mobility option, public transport is more efficient than personal vehicles in terms of road space used and per capita energy consumption. It also helps the society in ensuring Low-carbon growth in cities.

A team of trained technicians from India is deputed to SOTRA premises for a period of one year to train and assist the local team.

An often used but seldom understood term — customer delight — was the cornerstone of the project, making it a reference point for all stakeholders involved.

Implementation can be seen across Abidjan. The introduction of new Tata Buses has brought in refreshing changes to the daily commuters of the city.

Completed

Large

Cote D'Ivoire

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TATA MOTORS (SA) PTY. LTD.

TATA Motors South Africa Proprietary Limited (TMSA) is a private limited liability company having its office at 39 Ferguson Road, Cnr Ferguson and Rivonia Road, Illovo 2196, Johannesburg, South Africa.

TMSA has been established as a Joint venture between TML Holdings PTE Limited (TMLH) and TATA AFRICA HOLDINGS (SA) Proprietary Limited (TAHL) in Dec 2007. TMLH is a 100% subsidiary of TATA MOTORS Limited and TAHL is a private Limited Company having its office at Johannesburg, South Africa. TMLH is a beneficial and registered shareholder of 60% of the issued shares of TMSA while the rest being owned by TAHL.

Tata Motors South Africa was established for the purpose of assembly of Light and Heavy Motors Vehicles in South Africa. The manufacturing facility of TMSA is located at Rosslyn, Pretoria with an area of more than 34 000 Square mtrs. Kits comprising of vehicle parts and aggregates of commercial vehicles are imported from Tata Motors Limited, India and assembled at the plant located in Rosslyn. Manufacturing operations of TMSA started in April 2011 and the products of the Company are distributed through TATA Automotive Corporation of South Africa (Pty.) Ltd. (TACSA) which a 100% owned subsidiary of TAHL.

As of February 2018, TMSA has already assembled and sold more than 5000 vehicles in South Africa though few numbers have also been exported to neighboring countries. Amongst the various models which are assembled at TMSA are LPT 813, LPT 1518, ULTRA 814, PRIMA etc. These products have been received very well in the South African Market. There is a plan to expand the scale of operations to meet the growing demand of Medium and Heavy commercial vehicles in the neighboring countries.

As a responsible Corporate, TMSA has been an active corporate member to the local communities such as distributing many valuable items and the refurbishment of the orphanages to the under privileged youth. TMSA has also been in talks with the AIDC and other Institutions to train the educated youth of the community with the aim of making them potential candidates for job openings within Industries in SA.



Tata Motors South Africa Plant at Rosslyn, Pretoria



H.E The High Commissioner of India to South Africa at the 5000th Vehicle Roll out Function on 09th March 2018



C.E.O addressing the guests on the 09th March 2018



Team TMSA

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Set up an Assembly Plant in Rosslyn, South Africa for the manufacture of Light, Medium and Heavy Commercial vehicles.</p> <p>Impact: Direct Employment for about 60 people in and around Rosslyn. Contribution to the national economy of South Africa in the form of direct and indirect taxes.</p>	Completed in 2012	Medium	South Africa

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TRANSRAIL LIGHTING LTD.

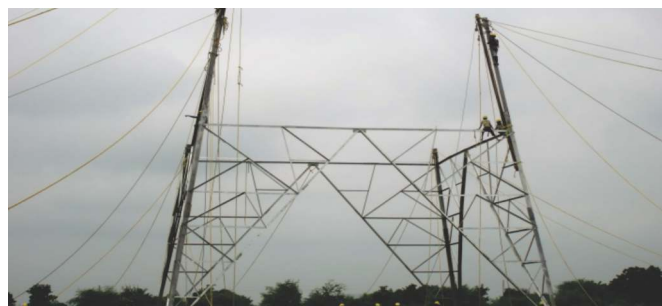
Transrail Lighting Ltd is having a world wide experience of executing large contracts of extra high voltage transmission lines. During last 3 decades, we have the distinction of executing more than 3000 km of 765 /800 kV lines, 10,000 kms of 400 kV lines and 8000 kms of 220/132 kV lines in India as well as other parts of the world. We, Transrail Lighting Limited (erstwhile part of Gammon India), are having large manufacturing plants for Towers, Conductors, Tower Testing Centre and execution experience of EPC contracts in India and various countries such as Algeria, Bhutan, Botswana, Benin, Canada, Ethiopia, Ghana, Kenya, Indonesia, Iraq, Mozambique, Nepal, Nigeria, Oman, Togo, Zambia, USA, etc.



Tensioning



Erection



Foundation

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Ethiopia: Client–EthiopianPowerCorporation</p> <p>a) Turnkey Execution of 230kV, Metu -Gambela Transmission Line 140 Kms and Supply of 66KV line material . (Total Tower Supplied -4067 MT) Considering all the project mentioned above we have supplied More than 25,000 MT of Towers & other materials since Sept 2010 to Ethiopian Electric Power Corporation(EEPCO)</p> <p>Positive Impact:</p> <p>The projects has provided sustainable power for Western parts of the country and allow the transmission of reliable power from the interconnected system, which facilitated the implementation of the rural electrification program, reduce high transmission losses, and improve system efficiency, stability and reliability.</p>	Year of completion : Aug 2015	Amount : 24.8 Mn \$	Contract-ElSewedy, Egypt and EEPCO Implemented -Ethiopia
02	<p>Tanzania :- Turnkey EPC of 6 substations 132/33 kV and 52 km OHTL in the urban area of Dar Es Salaam (TEDAP 132 kV Transmission Network Reinforcement Project for Dar Es Salaam, Arusha and Kilimanjaro, Contract No. PA/001/08/HQ/W/46.</p> <p>Positive Impact :</p> <p>This much needed infrastructure project is meant to mitigate to some extent, the huge power needs of both industry and the general public in the capital region of the country.</p>	Under Execution	Amount : 45.00 Mn \$	Tanzania



Stringing



Erection 2

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
03	<p>Kenya : Distribution Projects since 2006.</p> <p>I.</p> <p>II. Kenya Distribution Projects in Elgeyo Market, Baringo, Nandi, Uasin Gishu, Transnzoia, Turkana & West Pokot Counties. –2756 Kms of LV lines. On-going)</p> <p>Positive Impact :</p> <p>The project is consistent with the socio-economic development policy of Kenya which seeks to improve the living conditions of the population in the country will result in improved reliability of the power system and provide stable access to affordable power in rural areas.</p> <p>(Electricity supplied for Villages: Elgeyo Marakwet, Baringo, Namdi, Uasin Gishu, Trans Nzoia, Turkana and West Pokot Countries)</p>	Under Execution	Amount : 25.46 Mn \$	Kenya
04	<p>Rwanda:- Line Design, Supply and Installation of Medium and Low Voltage Lines and Service Connections in Gicumbi District of Rwanda project awarded by Energy Development Corporation Limited – Rwanda - 225 Kms of LV/MV lines, 54 Nos of Distribution Transformer and 3818 Nos of customer connections.</p> <p>Positive Impact :</p> <p>This project improved the access to reliable on-grid electricity services for households and priority public institutions in rural Rwanda. It ensures the construction of distribution network in the district has implemented in an environmentally and socially sustainable manner and in full compliance with Rwanda's social policies and regulations.</p>	April 2016	Amount : 4.4 Mn \$	Rawnda
05	<p>Mozambique :- Turnkey EPC of 170 Kms OHTL 220 kV CHIBATA-DONDO and 5Kms 110kV OHTL ELECTRICITY IV PROJECT LOT 2, FOR CLIENT ELECTRICIDADE DE MOCAMBIQUE (EDM) MOZAMBIQUE. – On-going .</p> <p>Positive Impact :</p> <p>This line will provide electricity to reduce poverty and stimulate economic growth. The Project supported the restructuring and strengthening of a combined high voltage transmission system in Mozambique. It will accelerate the pace of peri-urban and rural electrification programs by resolving some bottlenecks in the transmission system, thereby improve access to affordable energy services and promote energy efficiency and expansion development;</p>	Under Execution	Amount : 15.00 Mn \$	Mozambique

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
06	Supply of Tower (15373 MT) - Line Name 230KV D/C Melka-Wakena-Ramo-Gode and 132 KV S/C Harar - FIK power Transmission Project	Feb 2010	Amount : 31.4 Mn \$	Ethiopia
07	Supply of Tower and transmission line material - 132KV S/C Medi -Gidami .(Total Tower supplied-2087 MT)	Sept 2015	Amount : 4.9 Mn \$	Ethiopia
08	Supply of Tower and transmission line material - 132KV S/C Assosa - Bamza (Total Tower Supply - 2325 MT)	March 2017	Amount : 7.61 Mn \$	Ethiopia
09	Supply of Tower and transmission line material - 132KV S/C Gode - Kebridehar (Total Tower Supply -1435 MT)	Under Execution	Amount : 4.32 Mn \$	Ethiopia
10	Rural Electrification work (33kV, 11kV & 0.433kV) on Turnkey basis for Mount Kenya (Contract #2; Mount Kenya Contract #3; Central Rift Contract #2) - 206 kms of LV/MV lines. (Electricity supplied for Villages: Central RIFT 2, Mount Kenya 2 & Mount Kenya 3).	Jan 2008	Amount : 10.05 Mn \$	Ethiopia
11	Kenya Energy Sector Recovery Project, Distribution Reinforcement & Upgrade (KPLC/ESRP/01/017) – 66 Kms of LV lines (Electricity supplied for Villages : Nairobi, Limuru, Thika, Athi River, Cherangani, Butere & Sondu)	April 2013	Amount : 4.845 Mn \$	Kenya
12	Design, Supply and Installation of Distribution Substations, medium and Low Voltage Lines (KPLC1/6E/2/A9) – 291 Kms of LV/MV Lines and Distribution Transformers 174 Nos (Electricity supplied for Villages: Klestern Kenya)	Nov 2013	Amount : 6.39 Mn \$	Kenya

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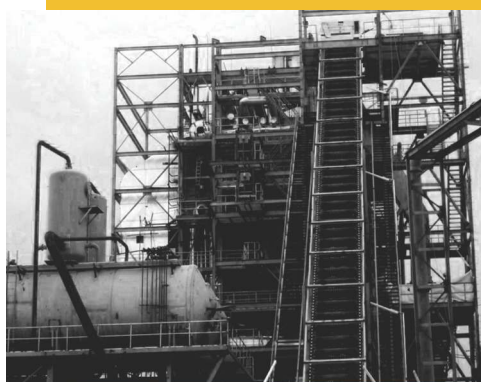


UTTAM SUCROTECH INTERNATIONAL PVT. LTD.

A dedicated arm of the UTTAM Group created to take its formidable EPC capabilities, Engineering Skills, Innovative Products and State of Art Technology to the Global Shores.

UTTAM GROUP - A GLANCE:

- ✓ Global presence with offices in 9 countries
- ✓ Into Sugar, Power, Alcohol Engineering and Project Execution
- ✓ One of the leading Sugar and Alcohol producers in India. Owns 4 Sugar factories in India with a combined capacity of 25,000 TCD producing 300,000 tonnes of sugar, 108 MW of power, and 75 klpd of ethanol (expanding to 150 klpd now).
- ✓ Successfully executed and has under execution several Turnkey / EPC Projects across the Globe - and especially in Africa and South East Asia, admittedly one of the most challenging of all regions, in terms of executing Turnkey Projects.
- ✓ The vast range of products and services are tailored for Sugar Factories from the smallest (750 TCD) to the largest (25,000 TCD) capacity
- ✓ 22 complete Sugar Plants with co-generation, 200+ Mills and over 400 Boilers installation
- ✓ Access to proven technologies from Australia, Brazil and Europe (through Indian licensee)
- ✓ The only Industrial Engineering Group in India and perhaps the world, with capability to manufacture the entire Plant & Machinery for the Sugar Industry in-house.
- ✓ Uttam Sucrotech International is certified for Integrated Management System (IMS) by Lloyd Register UK for Sugar EPC Projects
- ✓ Uttam's core team of experienced and qualified professionals has together ensured that the Group has remained at the forefront of industry developments and breakthroughs.
- ✓ Always strives to maintain commitments towards Best Quality and mutually rewarding Customer Relationships, at all times.



Wonji Shoa Sugar, Ethiopia



Sudanese Sugar, Sudan



White Nile Sugar, Sudan



Horyal Sugar, Uganda

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>WONJI SHOA SUGAR FACTORY, ETHIOPIA</p> <p>Wonji Shoa Sugar Factory is a Greenfield sugar project promoted by the government of Ethiopia, which was commissioned in the year 2013. The project, 110 km South East of the capital near Nazareth city in Oromiya Regional State, was conceptualized in a bid to replace old sugar factories of the region namely Wonji and Shoa.</p> <p>This project was carried out under the Indian Line of Credit to the Ethiopian government. Uttam Sucrotech International Private Limited is the EPC contractor of the project including the civil works.</p> <p>The salient features of the project are:</p> <ul style="list-style-type: none"> ✓ Location: Oromiya Regional State ✓ Plant Capacity: 6,250 TCD ✓ Steam Generation: 2 x 130 t/h (260 t/h); 67kg/cm²(a); 515°C size ✓ Power Co-generation: 31.5 MWh ✓ Production Milestone: 800,000 Sugar bag within 250 days (5 days ahead of schedule) ✓ Factory Statistics First Season: <ul style="list-style-type: none"> • Total Sugar Produced:81000 MT • Total High Grade (Coca Cola) Sugar: 5200 MT Produced (ICUMSA 80 and below) • Sugar Recover percentage:11.83% <p>Positive Impact of the Project in the Region</p> <p>This project led to agricultural expansion around WakieTiyo, Welenchiti and North Dodota areas making 16,000 hectares of sugarcane plantation field in total. Out of this the 7,000 hectares of sugarcane field is owned by out grower farmers of the surrounding area. There are 32 Sugarcane Out-growers associations of 9,100 member farmers, who are directly benefited from this Project. The Factory supports the farmers with seeds, irrigation facilities and rendering professional as well as technical support to them.</p> <p>This project not only saved the country's expenditure on Sugar imports but also contributed electric power to the national grid.</p>	Completed in Year 2013	Large	Ethiopia

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
02	<p>White Nile Sugar Company, Sudan</p> <p>White Nile Sugar Company, Sudan is a Greenfield Sugar Project promoted by Kenana Sugar Company, AAAID, Egyptian investors and the Sudanese Government.</p> <p>The Sugar factory is located about 168km from the capital city Khartoum on the east side of the White Nile River. It covers about 250,000 acres near Abu Hebera Village, White Nile State. The project area extends about 50km south of Al Kawa Town and as far north as the Khartoum-Rabak highway.</p> <p>The White Nile Sugar Plant, inaugurated by HE President Omar al-Bahir on July 11th 2012, is the world's least consumer of energy. Uttam Sucrotech International Private Limited is the EPC contractor this Africa's largest Greenfield Sugar project - 24,000 TCD capacity Sugar Factory for Sugarcane Juice Extraction and World's Largest Bagasse based Power Generation Plant - 104 MW.</p> <p>The salient features of the project are: Location: White Nile State</p> <ul style="list-style-type: none"> ✓ Plant Capacity: 24,000 TCD ✓ Juice Extraction: 12 Nos. - 45" x 90" Mills in 2 Tandems ✓ Power Co-generation: 104 MW <p>Positive Impact Of The Project In The Region</p> <p>Sudan's sugar consumption is around 1.2 million tonnes a year and at full capacity, the White Nile Sugar Company will produce 450,000 tonnes Sugar a year, which will fill the gap as the total annual production of Sudan is around 800,000 tonnes (from other Sugar Factories). This will not only eradicate the Sugar Imports completely but also create a scope for the Sugar Exports, which will bring additional foreign exchange to the nation.</p> <p>White Nile Sugar Project is also contributing in fighting poverty and to the development of the out-growers of the region. The sugarcane fields of the out-growers are provided free of cost irrigation facilities. It is also providing numerous opportunities of employment.</p>	Completed Year 2012	Large	Sudan
03	<p>Horyal Sugar Factory, Uganda</p> <p>Horyal Sugar Factory (Atiak) is a Greenfield Sugar Project promoted by Horyal Investment Holding Company Limited. The Sugar Factory is located in Gem Farm, Atiak sub-county, Kilak County, in Amuru District, in the Northern Region of Uganda.</p> <p>The new sugar factory has a capacity to crush 1,650 tonnes of raw cane daily, producing 66,000 tonnes (66,000,000 kg) of sugar annually. Uttam Sucrotech International Private Limited is the EPC contractor of the project.</p> <p>The salient features of the project are:</p> <ul style="list-style-type: none"> ✓ Location: Atiak sub-county, Amuru District ✓ Plant Capacity: 1,650 TCD ✓ Steam Generation: 50 t/h; 45 kg/cm²(a); 485°C size ✓ Power Co-generation: 6 Mwh <p>The commissioning of the factory is expected in early 2018 with first production output of sugar planned for June 2018.</p>	Underway, Completion in year 2018	Large	Uganda

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>Positive Impact of the Project in the Region</p> <p>The factory will employ over 1,500 people and has contracted with over 5,000 out-growers. The promoters of the company have established a working relationship with Gulu Women Entrepreneurs Association Limited (GWEAL) with an objective to develop the districts of Amuru, Atiak, Kamdin and Noya in Northern Uganda.</p>			
04	<p>Sudanese Sugar Company, Sudan</p> <p>The State owned Sudanese Sugar Company is regarded as one of the successful public sector companies and vital economic pillars in Sudan. It has an annual capacity of crushing 4,320,000 tons of sugar cane and produce 430,000 tons of sugar. The group owns 4 Sugar Factories viz. Assalya, New Halfa, Guneid and Sennar Sugar Factory.</p> <p>Uttam Sucrotech International Private Limited has executed a turnkey 13 MW co-generation plant with Civil Work and Bagasse Handling System for Assalaya Sugar Factory, Assalaya. In addition to above USIPL has also designed, manufactured, supplied, erected & commissioned "Pressure Stabilization System" and "Juice Stabilization System" in all the four existing Sugar Factories of Sudanese Sugar Company namely:</p> <ol style="list-style-type: none"> 1. Assalya Sugar Factory, Rabak Town Capacity: 6500 TCD 2. New Halfa Sugar Factory, Halfa Town Capacity: 5500 TCD 3. Guneid Sugar Factory, Medni Town Capacity: 5500 TCD 4. Sennar Sugar Factory, Sennar Town Capacity: 6500 TCD <p>With the commissioning of "Pressure Stabilization System" and "Juice Stabilization System", the Assalaya Sugar Factory was able to provide steam for a successful operation of 13 MW Steam Turbine. This addition of 13 MW Steam Turbine was done without making any investment on Steam Generation Unit. The Power Plant layout was made compact to be accommodated in the existing and operating Sugar Plant without any hindrance and stoppage of work.</p> <p>This upgradation in all 4 Sugar Factories also led to the improvement in the color of the Sugar and achieved Steam Saving.</p> <p>Positive Impact of the Project in the Region</p> <p>Of the total generation, 6.5 MW Power was exported to the national grid that provided much needed illumination to the nearest cities and town.</p>	Completed in 2008	Medium	Sudan

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VEDANTA ZINC INTERNATIONAL

Vedanta Zinc International (VZI) – headquartered in Johannesburg, South Africa – is a grouping of zinc assets located in South Africa, Namibia and Ireland, held by Vedanta Resources plc.

Vedanta Resources is a London Stock Exchange listed, globally diversified natural resources company with interests in Zinc, Lead, Silver, Copper, Iron Ore, Aluminium, Power and Oil & Gas. The company has deep and abiding roots in India, though it listed on the LSE in 2003 – becoming the first Indian company to do so.

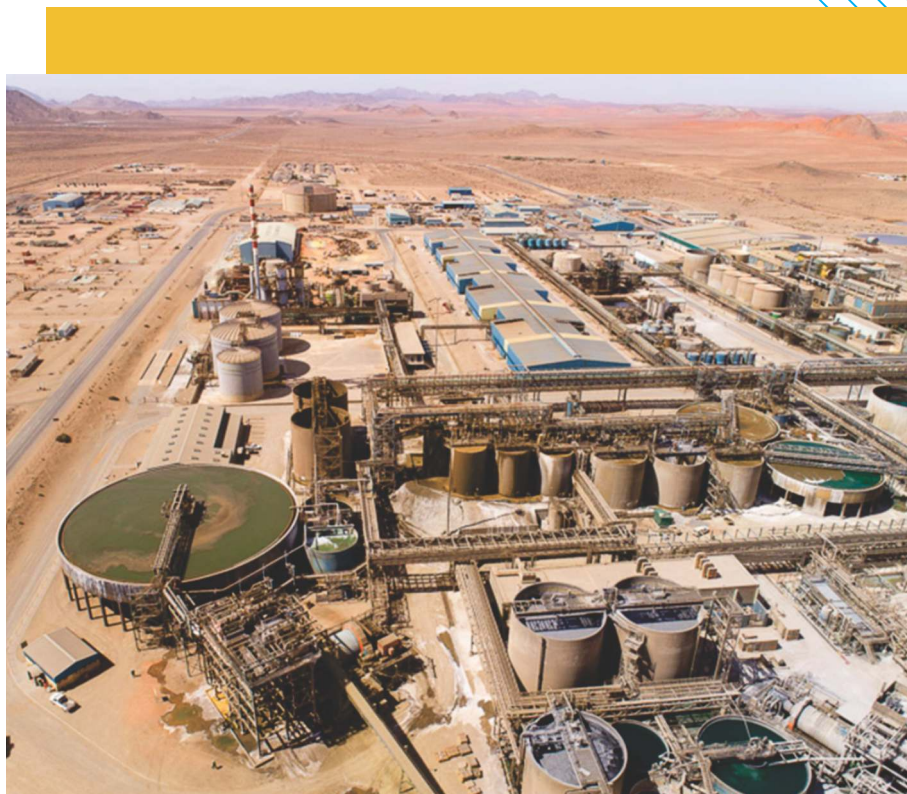
VZI aims to create an integrated world-class regional zinc complex comprising the Black Mountain Complex and the Skorpion Zinc mining and refining operations. The values of trust, entrepreneurship, innovation, excellence, integrity, respect and care form the core of VZI's business. Its vision is to be the safest, socially responsible 1mtpa integrated Zn producer; in the Q1 median of the global cost curve

Current operations and projects are:

- Black Mountain Mining (BMM), which comprises the Deeps and Swartberg underground mines and the flagship Gamsberg Project in South Africa's Northern Cape province;
- Skorpion Zinc Mine and refinery in the //Karas region of Namibia, at which the Pit 112 project is currently underway.

Mining and milling at the Lisheen Mine in Ireland was concluded in December 2015 after 17 years of operation and the mine is currently in an active closure mode.

Along with its operational assets, VZI is investing strongly in exploration initiatives in South African and Namibia, with the primary focus being to explain the footprint and lifespan of current assets.



Skorpion Zinc plant



BMM ESOP launch



BMM ESOP launch



Deputy Minister of DMR Godfrey Olifant on site at BMM

PROJECTS IN AFRICA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Skorpion Zinc (Skorpion), a part of VZI, is located 25 kilometres north of the town of Rosh Pinah in the //Karas region of southern Namibia. It is key to the vision of Vedanta Zinc International (VZI) for a Southern African zinc complex of international standing. The //Kharas region is remote, arid and vast – and Skorpion thus plays a key role as a major employer and contributor to the economy. In 2016, VZI contributed USD7 million in corporate taxes.</p> <p>Skorpion provides employment for approximately 1 600 people, including those of its business partners. In compliance with Namibia's localisation policy, some 96% of the total are Namibian citizens.</p> <p>The operation came into production in 2003, and was acquired from Anglo American by VZI in 2010/2011. The initial life of mine was expected to be around 2017. However, the US\$200 million Pit 112 expansion currently under way has increased Skorpion's reserve and resource to 26Mt (3Mt zinc) and extended the life of mine to 2020. Refined zinc production in FY2018 is expected to be approximately 90kt, rising to approximately 130kt in 2020.</p> <p>The Pit 112 expansion is a partnership with world class business partner Basil Read Namibia. Involving the removal of 80 million tonnes of waste to produce 2.5 million tonnes of ore, the project has enabled a further life extension of three years for the mine and refinery.</p> <p>The Pit 112 expansion will be a critical enabler for the potential ~US\$160 million conversion of Skorpion's refinery. The refinery currently processes the mine's unique oxide ore. However, sulphide ore is much ore common at other operations in Namibia and at the Gamsberg project. The conversion would allow the refining of concentrate from Gamsberg, and other operations and projects in Namibia.</p> <p>The Skorpion Refinery – unlike most zinc refineries globally, which refine concentrate produced from zinc sulphide ore – is currently configured to treat Skorpion's oxide ore, which has a grade of 8-10%.</p> <p>Skorpion's SHG zinc product is favoured by European markets because of its very high quality.</p> <p>An aggressive drilling programme – 40 000 metres in 2017 compared with an average of 7 000 metres a year</p>	Pit 112 project initiated underway	Large – investment of US\$ 200	Namibia



Gamsberg plant 1



Gamsberg plant 2



Opening of Aggeneys Public Clinic

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>previously – is currently underway with a view both to developing Skorpion as an underground mining operation and identifying zinc resources elsewhere in Namibia.</p> <p>Other projects under consideration include:</p> <ul style="list-style-type: none"> the processing of a 6Mt stockpile of low-grade zinc ore; and the processing of more than 100 000t of copper, currently mined as waste. 			
02	<p>Acquired from Anglo American in 2011, the Black Mountain Mine (BMM) Complex comprises the Deeps and Swartberg shafts, and the Gamsberg project. Deeps produces copper, lead and zinc, with silver as a by-product. Swartberg produces primarily copper and lead, with silver as a by-product. Between them, they give BMM an overall output of 1.7Mt of ore a year, and have a production capacity of 90,000tpa metal-in-concentrate.</p> <p>BMM currently employs over 1000 people – with a focus on the employment of people from local communities and the immediate region. Many BMM employees are in a position to benefit from an employee share ownership plan which was established in April 2017, holding 6% of Black Mountain shares, and vesting after 7 years.</p> <p>Discovered more than 40 years ago and held undeveloped in the asset portfolios of various mining companies, the development of the Gamsberg project well timed to feed into a global supply-demand gap and forms part of Vedanta's commitment to the development of the region. Vedanta's investment of US\$400 million in the project came at a low point in the market, as the result of both faith in the product a commitment from Vedanta to South Africa's government to move ahead on the project within 5 years of the purchase.</p> <p>The recruitment of local people – in the first instance from local communities and then from the Northern Cape – is a priority for Zinc International and an obligation for all of the business partners working on Gamsberg.</p> <p>More than 2,200 people have been employed at Gamsberg, largely by business partners during construction. 50% of these employees are from the</p>	Purchased in 2011, project ongoing	Large	South Africa



Skorpion Zinc pit



Skorpion Zinc Community Healthcare workers organic garden 1



Skorpion Zinc Community Healthcare workers organic garden 2

No Name of the Project and positive impact

Year and Status of Implementation (Completed or Underway)

Project Size (Small/Medium /Large)

Country of Implementation

Northern Cape, with priority given to residents of 25 immediate communities. At the steady state of phase 1, around 800 people will be employed permanently.

Gamsberg has a large reserve and resource of 214Mt, with an average grade of between 6 and 6.5%, and an estimated life of mine (LOM) of 30 years. In Phase 1, which has a LOM of 13 years, 4Mtpa of ore will be produced from Gamsberg's open pit and 250,000tpa of zinc-in-concentrate from its concentrator plant. First production is expected by mid-2018, with full production reached in nine to 12 months.

Gamsberg is one of the most digitally advanced new mining operations in Africa, with its design and construction aiming to keep the project at the forefront of the digitalisation revolution from the start of operations.

VZI's approach to community development is holistic and integrated, and includes:

- A focus on skills development and training – from tertiary level through to primary education;
- Addressing housing shortages in the immediate community;
- Committing to enterprise and local supplier development, with 12 new local businesses created in 2015, with a commercial value
- of R7.1 million (commercial opportunities now sit at almost R24 million)
- Expenditure with BEE companies in 2016 was R946 million – 84.2% of discretionary expenditure of R1,123 million during this period. BEE expenditure between January and June 2017 is R746 million, representing 85% of total discretionary expenditure of R878 million.
- The commitment to community SLP projects in 2017 amounts to R26 million, with R8.1 million allocated by Gamsberg.

VZI's greater vision is to create an integrated world-class regional zinc complex comprising the BMM (including Gamsberg) and the Skorpion Zinc mining and refining operations.



Skorpion Zinc Kharas Goat Project 1



Skorpion Zinc Kharas Goat Project 2



Vedanta plc Chairman Mr Anil Agarwal on site at BMM

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
03	<p>The Skorpion Zinc Karas Goat Project is a beacon of hope for the economic emancipation of rural people in Namibia. The project, started in March 2012, aims to contribute towards poverty eradication in Namibia by affording rural, underprivileged families a sustainable entrepreneurial opportunity to improve their livelihoods through goat farming.</p> <p>The project was initiated by the Office of the Governor and the Nama Traditional Authorities after a needs assessment was carried out by the Ministry of Agriculture. Skorpion Zinc funded the purchase of the initial goat breeding stock, transportation, and training, at a cost of more than N\$700 000 to ensure the successful establishment of the project. Initially, 16 households, spread across the four communal agricultural wards of the Karas region (Karasburg, Berseba, Tses and Bethanie), with four beneficiaries from each ward, were each given 31 goats each – 30 ewes and a ram. More than 60% of the beneficiaries of the project are women – a deliberate intervention to assist womenheaded households in rural Namibia.</p>	Commenced in 2012, ongoing	Small	Namibia
04	<p>The Skorpion Zinc Community Health Care Workers Project - Contributing towards small scale organic gardening practices</p> <p>Community health care workers in the town of Rosh Pinah (in the southern //Kharas region of Namibia) have started a gardening project with the intention of both increasing food security and earning income to support their families. There are six women participating in the organic garden initiative, whose objectives are to:</p> <ul style="list-style-type: none"> • contribute towards food security and nutrition for families, • promote vegetable gardening in Rosh Pinah • transfer and preserve indigenous gardening skills, including low water consumption. • provide those involved with a sense of security, not only towards provision of food, but towards the ability to earn an income for other needs. <p>The garden makes use of the pot-plant gardening technique, which requires minimal water usage, and produces spinach, onions, carrots, beetroots, and green peppers. Surplus produce from the garden is sold to a local retailer (Spar), different business partners around Rosh Pinah and to the local community. With this new income stream, the women are able to provide some basic needs for their households, giving them additional independence.</p> <p>Although the women involved in the project heavily rely on indigenous gardening knowledge and have no formal agricultural training, they continuously seek to improve and grow their garden. Currently the women are learning about how to better develop compost using old dry leaves and other items. This garden gives the women an</p>	Commenced in 2012, ongoing	Small	Namibia

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
	<p>additional level of economic independence as they now have a new stream from which to earn income and food security.</p> <p>A request for additional land to expand the project has been sent to the local municipality. Once approved, the current project members are looking to mobilize as many community members as possible - especially women - to join the project. With increased land and membership will come increased produce, translating into even greater nutritional and financial returns. With this expansion in mind, the women have identified a need for financial management training which will empower them to better manage the finances of their project.</p>			
05	<p>Upgrading of the Aggeneys Public Clinic</p> <p>The Aggeneys Public Clinic was opened on 10 October 2017 by the Northern Cape MEC for Health, Mr Lebogang Motlhaping, the Mayor of Khai-Ma, Mrs Pasqueline van Heerden, and the General Manager of Vedanta Zinc International's Black Mountain Complex, Mr Andre Trytsman.</p> <p>The clinic was first opened in 2006, and functioned with only two consultation rooms, one toilet, one waiting area and a pharmacy. It also used to operate with one professional nurse and one VCT Councilor to cater for the broader community.</p> <p>Construction of the new clinic facility commenced in January 2017 and was completed end of May 2017, with the healthcare team moving into the new facility in June 2017. From its humble beginnings with no telephone, the Aggeneys Clinic is now a properly equipped clinic of approximately 280m2, catering for around 600 patients per month. It has bigger consultation rooms, a properly equipped pharmacy, a new emergency room, larger storage space and easier access for handicapped patients.</p> <p>Health issues are central to matters of development and access to primary health care is amongst Vedanta Zinc International's key strategic priorities. We have a vision, at Black Mountain, of creating a prosperous, safe and sustainable world-class natural resources complex, where our stakeholders and their families can thrive. We know that we cannot achieve this vision without partnering with various other sectors of society such as the Department of Health.</p> <p>The clinic is a successful public-private partnership in the interests of the wider Aggeneys community. At the opening, Vedanta confirmed its continued support - in partnership with the Department of Health - to the successful operation of the Clinic facility.</p>	<p>Work began January 2017, new clinic opened 10 October 2017</p>	Medium	South Africa

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
06	The Black Mountain Mining ESOP In April 2017 Vedanta's Black Mountain Mining operation established an employee share ownership plan (ESOP) which will be in place for a 7-year period effective from 1 April 2017 – at which date six percent of Black Mountain shares were issued to the trust.	Launched 1 April 2017 - ongoing	Medium	South Africa



Skorpion Zinc refinery

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EXPORT-IMPORT BANK OF INDIA'S ENGAGEMENTS WITH AFRICA

SELECT SUCCESS STORIES

Export-Import Bank of India (Exim Bank) was set up in 1982 by an Act of Indian Parliament for financing, facilitating and promoting India's foreign trade. It is the principal financial institution in the country for coordinating the working of institutions engaged in financing exports and imports. Exim Bank is fully owned by the Government of India.

The countries in the African continent have always been a focus region for Exim Bank, and thus a critical component of its strategy to promote and support two-way trade and investment. As a partner institution to promote economic development in Africa, the commitment towards building relationships with the African Region is reflected in the various activities and programmes, which Exim Bank has set in place.

Exim Bank has Representative Offices in Addis Ababa, Ethiopia; Johannesburg, South Africa; and Abidjan, Cote d'Ivoire, which play a key role in facilitating economic cooperation with the African Region, and are closely associated with several of the Bank's initiatives. The Representative Offices interface with multilateral institutions such as the African Development Bank (AfDB), Afreximbank, regional financial institutions such as Eastern and Southern African Trade and Development Bank (PTA Bank), West African Development Bank (BOAD), ECOWAS Bank for Investment and Development (EBID), Development Bank of Southern Africa (DBSA), besides other national level development financial institutions, as well as Indian Missions in the region with the aim of increasing bilateral commercial engagements between the two regions.



PROJECTS IN AFRICA

Project / Sectors Financed		LOC Recipient Countries
Agricultural Project	➡	Burkina Faso, Cameroon, Chad, Cote d'Ivoire, Eritrea, Gambia, Guinea Bissau, Ghana, Mauritania, Madagascar, Malawi, Mali, Mozambique, Senegal, Sierra Leone, Sudan, Swaziland, Tanzania, Togo
Healthcare Systems / Posts	➡	Guinea, Zambia
Construction Project	➡	Burkina Faso, Gabon, Gambia, Ghana, Malawi, Mozambique
Irrigation	➡	Lesotho, Malawi, Mozambique, Rwanda, Senegal
Power Generation	➡	Burundi, Central African Republic, Comoros, Congo DR, Equatorial Guinea, Ethiopia, Mali, Mozambique, Niger, Rwanda, Sudan, Zambia, Zimbabwe
Transmission and Distribution Rural Electrification	➡	Burkina Faso, Chad, Congo DR, Republic of Congo, Ethiopia, Gambia, Ghana, Kenya, Liberia, Mali, Mozambique, Senegal, Sierra Leone, Sudan, Togo
Railways Rehabilitation	➡	Angola, Benin, Ethiopia, Ghana, Mali, Senegal
Road Transportation	➡	Central African Republic, Cote d'Ivoire, Ghana, Niger, Senegal
Technology (Parks and Training)	➡	Benin, Cote d'Ivoire, Congo DR, Mozambique, Senegal, Swaziland
Sugar Industry Development	➡	Ethiopia, Ghana, Malawi, Sudan
Industrial Parks / Project / Assembly Plants	➡	Angola, Benin, Burundi, Chad, Cote d'Ivoire, Gambia, Mozambique, Sudan
Supply of Equipments / Capital Goods	➡	Benin, Burkina Faso, Central African Republic, Cote d'Ivoire, Republic of Congo, Congo DR, Djibouti, Ghana, Guinea Bissau, Lesotho, Mauritius, Niger, Senegal, Seychelles, Sierra Leone, Sudan, Tanzania
Cement Plants	➡	Central African Republic, Republic of Congo, Congo DR, Djibouti

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
01	<p>Rehabilitation of Railways in Angola through the LOC of USD 40 million.</p> <p>Modernization and upgradation of workshop, supply of 41 coaches, 3 locomotives, 2 diesel Multiple Units and pick-up vehicles and buses.</p> <p>Coaches are operating between Namibe and Matala (434 km) carrying, both passenger and freight traffic.</p> <p>Training has been imparted to technical professionals of Mocamedes Railways.</p> <p>The project facilitated exploration of Kassinga Mines deposit bed (iron ore) in the Jamba Huila Province and provides cheaper mode of transportation as compared to road for transportation of agricultural products to the interior regions.</p>			ANGOLA
02	<p>LOCs of USD 10 million and USD 16.88 million extended for financing the Construction of National Assembly Building Complex.</p> <p>The Assembly complex comprises meeting rooms for VIPs, offices for majority and minority leaders, a Chamber that can accommodate 400 guests, as well as an auditorium with a capacity for 150 persons.</p>			GAMBIA
03	<p>A landmark structure to house Seat of the Government and Presidency has been constructed through the LOC of USD 60 million.</p> <p>The structure is a symbol of enhanced Indo-Ghana relationship.</p> <p>The project provided jobs to semi-skilled and un-skilled labourers of Ghana.</p>			GHANA
04	<p>Refurbishment of Komenda Sugar Factory in Ghana financed under an LOC of USD 35 million.</p> <p>The plant is expected to increase the production of sugar and its related products for the local and international markets.</p> <p>The sugar plant is expected to create 1300 direct jobs and about 5000 auxiliary jobs in Ghana.</p>			GHANA



ANGOLA



GAMBIA



GHANA



GHANA

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
05	Equipments supplied, installed, commissioned and training provided under the LOC of USD 30 million for One Village One Product Programme (OVOP) and Small Holder's Irrigation Programme.			MALAWI
06	Tractor Manufacturing and Assembly Plant (Mali Tracteurs S.A.) in Mali, financed under the LOC of USD 27 million. Government of Mali has now converted the assembly facility to a regular factory with equity participation of Indian company. Indian fuel-efficient tractors transformed the way the farmers used agricultural implements in Mali. Now, with a single tractor the farmers can cultivate, plough, harrow, haul and do many other things at a low running cost.			MALI
07	LOC of USD 21.80 million extended to the Government of Mauritania for a Milk Processing Plant with a capacity of 30,000 Litres Milk/Day.			MAURITANIA
08	An LOC of USD 25 million has been extended to the Government of Mozambique for financing IT Park Project, involving setting up of and developing a Science and Technology Park as well as a Technological Development and Innovation Centre. More than 500 students have been provided basic training in different kinds of IT fields, since the operation of the IT Park.			MOZAMBIQUE
09	Two LOCs aggregating USD 80 million were extended to the Government of Rwanda for financing the 28 MW Nyaborongo Hydro-power project in Rwanda. The project is one of Rwanda's biggest hydroelectric power plant and caters to 25% of total electricity demand of Rwanda.			RWANDA
10	Um Dabakir Power Station (Kosti), a 4x125 MW combined cycle power plant, the largest plant in Sudan, is commissioned with the LOC of USD 350 million. The power plant is contributing to one-sixth of the total power demand of Sudan. The electricity generated from the plant is also supplied to sugar and cement factories.			SUDAN



MALAWI



MALI



MAURITANIA



MOZAMBIQUE

No	Name of the Project and positive impact	Year and Status of Implementation (Completed or Underway)	Project Size (Small/Medium /Large)	Country of Implementation
11	For expansion of Upper Ruvu water Treatment plant in Tanzania a LOC of USD 178.13 Million has been extended The objective is to increase the water production and distribution capacity of Upper RUVU water supply system from 82 million litres per day to 200 million litres per day supply more water to the Dar-es Salaam region			TANZANIA
12	Agricultural equipments like Bulldozers, Excavators, Wheel Loaders, Submersible pumps & Drip irrigation kit are supplied under the LOC of USD 13.095 million to the Government of Togo The project enables every farmer in the region to own half a hectare of land for cultivation. A training centre has also been established to train the youth operating the agricultural equipments.			TOGO
13	4x4 pick-up trucks, buses and spare parts were supplied under the LOC of USD 10 million to Government of Zambia. Vehicles are being used by various departments, such as Zambia police and Zambia National Services. The supply of vehicles has majorly improved the police presence and patrolling all over the country, even in far flung remote ares.			ZAMBIA
14	120 MW Itezhi Tezhi Hydro power project of value USD 240 million developed by itezhiTezhi power Corporation (ITPC) First - of - a -kind public private partnership (ppp) in the power sector in Zambia Critical equipment for the project viz. Turbines, Generators, Main inlet Valves, Speed Governors and Excitation system have been supplied under the LOC. The project is generating power at its full capacity			ZAMBIA



RWANDA



SUDAN



TANZANIA



TOGO

Buyer's Credit under the National Export Insurance Account (BC-NEIA)

Projects/ Sector Financed	BC- NEIA Recipient Countries
Construction project (Oil and gas) →	Mozambique
Transmission and Distribution Rural Electrification →	Cameroon, Ethiopia, Senegal, Zambia
Railways Rehabilitation →	Ghana
Road Transportation →	Cote d'Ivoire, Senegal, Tanzania, Zimbabwe
Supply of Equipments / Capital Goods →	Zimbabwe
Road Project →	Zambia
15 BC-NEIA facility of USD 49.92 million extended for supply of 663 vehicles which includes Logistics Trucks, Tippers, Buses, Ambulances, Mobile Service Vans, Anti-Poaching vehicles, Fuel Tankers, Fire Tenders etc. The vehicles are facilitating Tourism, Anti-Poaching, Wildlife and Biodiversity Conservation, Disaster Management and Drought Relief. Training has also been imparted to technical staff in operation and maintenance of the vehicles and related equipment. The supply of vehicles has supported sustainable development and growth of tourism and hospitality industry in Zimbabwe.	ZIMBABWE
16 BC-NEIA facility of USD 69.75 million was extended for supply of 475 vehicles, spares and related services to Dakar Dem Dikk, public limited company promoted by the Government of the Republic of Senegal. The fleet of buses for Dakar Dem Dikk increased from 200 to 675, Inter-city A/C buses were introduced for the first time in Senegal. The buses facilitated manual physical handicap ramp which was introduced for the first time in Senegal. Training has also been imparted to technical staff in operation and maintenance of the vehicles and related equipment. The supply of buses has facilitated ease of traveling for the people of Senegal.	SENEGAL



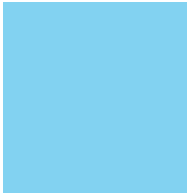
ZAMBIA



ZAMBIA

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Confederation of Indian Industry

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering industry, Government, and civil society, through advisory and consultative processes.

CII is a non-government, not-for-profit, industry-led and industry-managed organization, playing a proactive role in India's development process. Founded in 1895, India's premier business association has over 8,500 members, from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 200,000 enterprises from around 265 national and regional sectoral industry bodies.

CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities for industry through a range of specialized services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.

Extending its agenda beyond business, CII assists industry to identify and execute corporate citizenship programmes. Partnerships with civil society organizations carry forward corporate initiatives for integrated and inclusive development across diverse domains including affirmative action, healthcare, education, livelihood, diversity management, skill development, empowerment of women, and water, to name a few.

As a developmental institution working towards India's overall growth with a special focus on India@75 in 2022, the CII theme for 2017-18, **India@75: Inclusive. Ahead. Responsible** emphasizes Industry's role in partnering Government to accelerate India's growth and development. The focus will be on key enablers such as job creation; skill development and training; affirmative action; women parity; new models of development; sustainability; corporate social responsibility, governance and transparency.

With 67 offices, including 9 Centres of Excellence, in India, and 11 overseas offices in Australia, Bahrain, China, Egypt, France, Germany, Iran, Singapore, South Africa, UK, and USA, as well as institutional partnerships with 355 counterpart organizations in 126 countries, CII serves as a reference point for Indian industry and the international business community.

Confederation of Indian Industry

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