

Volume - V, March 2015



प्रयास

एक बेहतर दुनिया की ओर...



Maharatna Company



Bharat Heavy Electricals Limited

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CSR Vision

A responsible corporate citizen working towards a better tomorrow



CSR Mission

To sincerely & effectively discharge company's responsibility in the identified CSR thrust areas and other areas listed out in the Companies Act, 2013



Vision to All BHEL's Call



Organ Donation



Sanitation for All



Swachh BHEL...
Swachh Bharat...



MESSAGE



I am happy to note the way CSR initiatives are being carried forward by our units. This is a matter of immense satisfaction and joy to me as well as for the entire organization.

The Golden Jubilee Celebrations of our company has just gone by. The year has unleashed fresh challenges in all spheres of our operations. Therefore, we have to be consistent in our endeavour to prove ourselves as sensitive and responsible corporate citizens as ever by rising to the mammoth task of nation building.

Our stakeholders, particularly the Govt., has very high expectations from us with regard to delivery on various parameters of our operations particularly on the CSR front. As per the Companies Act, 2013, in the event of falling short of the stipulated/targeted fund spent on CSR during the year, we would have to provide reasons for the unspent amount in the Annual Report for the year and to carry forward the said amount to the next year. To ensure full utilization of funds, the BLC for CSR is continuously and periodically reviewing the status.

The Companies Act, 2013 leads the challenge for organizations particularly ours as we grapple to integrate our business with not just social but also economic and environmental objectives of the society. The positive side of this challenge is that it is an opportunity for us to expand our outreach to the society showcasing our good CSR practices despite the fact that the business environment is becoming increasingly complex and our stakeholders' expectations soaring sky high.

As a successful CSR entity we should strive to build our trust and confidence in the society. Given our presence across the country and being one of the largest manufacturer and supplier of power equipments, we must strive for the overall good of the society thereby making a positive impact through inclusive development of the country.

(R. Krishnan)
Director (HR)



MESSAGE

It gives me immense satisfaction and pleasure to be associated with the Corporate Social Responsibility (CSR) function of the Company. In CSR, our endeavour is to create value by bringing about harmonious and sustainable development of the society and the community around.

Since its inception, BHEL has made a significant impact in its surroundings by successfully implementing projects related to Environment Protection & Energy Conservation, Skill development, Vocational training, Education & Promotion of talent, Adoption of villages & Community development, Health management, Disaster & Calamity management, Infrastructure development, etc.

With the enactment of the Companies (CSR) Rules, 2014 under the Companies Act, 2013, it has become mandatory for all organizations to spend at least 2% of the company's net profit on CSR activities/programs. Based on these rules, we formulated our CSR Policy which comprehensively addressed issues related to the various provisions of the Act in a more precise and focused manner. However, subsequent to the approval of this policy by the BHEL Board, several clarifications and amendments to the Rules have been notified by the Ministry of Corporate Affairs. The Department of Public Enterprises (DPE) has also issued CSR Guidelines for CPSEs on 21st October 2014. We have, therefore reviewed the CSR Policy to suitably incorporate these clarifications/amendments and also fine-tuned it in accordance with the DPE guidelines of 21st October 2014. This revised CSR policy is under approval by the Board.

A Procedural Guidelines on CSR (PGCSR) has now been framed by BHEL in line with the revised CSR Policy of the Company. The way forward is, therefore, to passionately work within the ambit of the PGCSR with a view to implement CSR projects holistically across the whole corporation.

The overriding priority at this stage is to shift the focus from short-term profit considerations to long-term sustainable value creation, built around corporate responsibility and ethics. This is indeed the power of collective action that we can display.



(B. Shankar)
ED (HR & CC)



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BHEL's CSR POLICY STATEMENT

BHEL, a global engineering enterprise providing solutions for a better tomorrow, is committed towards holistic welfare of the society by undertaking CSR activities within the ambit of Schedule-VII of the Companies Act, 2013, as amended from time to time. However, thrust areas for CSR activities will be:

- I. **Inclusive India:** Mitigation of hunger and poverty through livelihood promotion/ augmenting income generation, Imparting vocational skills;
- II. **Healthy India:** Promoting health care including preventive health care and sports;
- III. **Clean India:** Sanitation and making available Safe Drinking Water, Cleaning and preserving the Rivers, Clean surroundings, toilets in schools especially for girls;
- IV. **Educated India:** Promoting education with thrust on informal education to reduce dropouts at primary school level, value education, digital education;
- V. **Responsible India:** Women Empowerment, Setting up Old Age homes, Day Care Centre and such other facilities for senior citizens, Rural Development Projects and Slum Development Projects;
- VI. **Green India:** Ensuring environmental sustainability with emphasis on projects based on Solar Energy;
- VII. **Heritage India:** Protection of national heritage, art and culture;

In the above thrust areas priority will be given to underprivileged, neglected and weaker sections of the society. The company shall give preference to the local areas for spending at least 75 % of the amount earmarked for CSR activities. The remaining amount may be utilised beyond local areas. However, contribution made to the Central Government Schemes, where defining the area as well as the scope is not possible for the company, will be excluded while arriving at the 75:25 ratio. It is desirable that CSR initiatives should be taken up in project mode, to the extent possible. However, it shall exclude any contribution made to the Central Government Schemes.

Periodic review of this policy shall be done to ensure its continued suitability, adequacy and efficacy.



CSR INITIATIVES BY UNITS

ASSCP, Gurgaon

- Palliative care for cancer patients through implementing agency Global Cancer Concern Indian (GCCCI)

BAP, Ranipet

- Providing RCC roof for Nursery class room in SRK-BHEL school
- Construction of toilet with septic tank in Govt. Higher Secondary School at Guruvarajapet
- Construction of toilet with septic tank in Govt. Higher Secondary School at Rendadi
- Construction of Computer Lab for Govt. Higher Secondary School at Kodaikal Village
- Construction of Compound Wall for Govt. Girls Hr. Secondary school at Walajapet
- Construction of Drinking water sump, two cupboards and barbed fencing for compound wall at Govt. Hr. Secondary school at Arakonam
- Construction of Compound wall for Govt. Hr. Secondary school at Kodaikal Village

EMRP Mumbai

- Financial support for setting up the rehabilitation center for cerebral palsy and autism affected children of Swayam Rehabilitation Trust

HEP, Bhopal

- Scholarship to orphans, widow wards & differently-abled students
- Scholarship to Engineering and MBBS students
- Scholarship to disabled students of ITI & Polytechnic
- Community Development.
 - Medical camps
 - Yoga classes
 - Waste Reduction Awareness programs etc.
- Support to Aarambh-Umeed shelter home for homeless children
- Skill Development Programs
- Construction of Public Toilet at Panchi Vihaar, Bhopal
- Support for creation of additional infrastructure facilities at Jyoti Disabled School, Anand Nagar, Bhopal

- Repair & Renovation work at Triveni Girls Hostel, Govindpura and Bhopal
- Repair & Renovation work at Aanganvadi kendra in Hostel No.5 run by Madhya Pradesh BalKalyan Parishad
- Rain water harvesting with stop dam in BHEL Sports Complex, Berkhera
- Installation of Solar Light at Kamla Nehru Park to develop the park as an energy park

CFP, Rudrapur

- Providing Computers and Furniture to Lila Memorial School
- Providing Uniform (Woolen Clothes) to: students of Primary School, Awas Vikas; Primary School, Fulsungi; Primary School, Tanda; Primary School, Shivpur; Rajkiya Junior Girls School, Transit Camp; Primary School, Baghpur
- Desk and Benches distribution at: Primary School, Baghpur; Primary School, Maheshpur; Primary School, Tanda
- Health Camp at Rampura
- Construction of Toilets at Rajkiya Junior Girls School, Transit Camp and Secondary School, Dholpur

EDN, Bangalore

- Study material / Uniforms/ Bags to poor students (adopted villages & others)
- Construction of 4 Nos. class rooms at school Sphoorthydhama Ambedkar Memorial Campus
- Class room furniture (Bachehalli & other Govt. Schools)
- Construction of Boundary wall/ Roofs at schools in adopted village
- Conducting awareness programme & Medical camps
- Drinking Water Facility
- RO plant at school in adopted village
- Scientific and other equipments for the Mobile science van for Agastya International
- Sports equipments for adopted village school
- Supply of Boards & Tree Guards to Pollution Control boards
- Maintenance of Roads in front of factory
- Aids for Differently-abled persons (Snehadeep, Dibyajyothi & Mobility India)
- Furnishings of library facilities for 'Headstreams'



- Providing medicines for mobile dental van and mobile medical van for 'Karuna Trust'

EPD, Bangalore

- Construction of one Anganawadi Building at JP Nagar, DoddaballapuraTq., Karnataka
- Construction of Girls Toilet at Govt. High School, Ramangara, Karnataka.
- Construction of Anganawadi Building at Hosapalya, Kumbalagodu Grama Panchayat, Bidadi Hobli, Ramanagara Tq. Karnataka
- Opening of the three Cycle Stations in Malleswaram through "RIDE A CYCLE FOUNDATION" for promoting Cycling as means of commute and transport in our neighborhood, Malleswaram
- Providing both boarding and lodging facility to intellectually disabled children while they undergo Data Entry Training in AMBA Foundation
- Conducting three Medical Camps of one day each in adopted/ neighboring villages
- Providing physical & health education requirements, Public Address System, Water Purifiers System to a Govt. Primary School, Srirampuram, Bangalore – run by Bharatiya Vidya Bhavan, Bangalore for downtrodden and underprivileged children

HRDI, Noida

- Providing value education programme to Govt. and Govt. aided school children through Ramkrishna Mission, New Delhi
- Providing scholarship to poor and needy Below-the-Poverty-Line students across India through implementing agency– Foundation of Academic Excellence and Access (FAEA)

HEEP, Haridwar

- Financial support for construction of Ganga Prem hospice (30-bedded) for terminally ill cancer patients near Raiwala, Rishikesh
- BHEL-Udyan Shalini educational fellowship support to 100 girls from economically weaker sections of the society
- Mobile medical van project in the service of rural poor and slum dwellers at Haridwar and its nearby areas through PHDRDF
- Construction of physiotherapy hall (approx. area 800 sqft) along with toilet for old age people at community centre (civil & elect.)
- Modification/renovation of toilets in community centre (civil & elect.)
- Repair, maintenance & security for working women hostel

- Conducting various skill development programmes such as tailoring, beautician course, purse making, flower bouquet making etc.

- Conducting plastic surgery operations for the needy and poor people through Rotary Club
- Providing support for electrification of cremation ground
- Beautification of Har Ki Pauri, Haridwar in association with other agencies

ISG, Bangalore

- Financial support for construction of one side of Kambala Stadium Gallery at Miyar, Karkala, Karnataka
- Financial support for construction of Bridge across the canal at Makalli to Horokyathanahalli, Dasanapura Hobli, Bangalore North Taluk, Karnataka
- Providing financial support towards purchase of Maruti Omni (Part payment for the purchase)
- Providing Steel Almirahs with Glass Doors, Steel Almirahs, and Science Equipments for Laboratory to Govt. Higher Primary School, Madavara, Bangalore North
- Conducting medical camps in the villages of Nelamangala Taluk, Bangalore Rural District
- Providing furniture, books, sports items etc. to Govt High School, Muddenahalli, Chikaballapur Taluk
- Providing furniture, books, sports items etc. to Govt High School, Muddenahalli, Chikaballapur Taluk
- Providing almirahs, chairs, Tables, Cots etc. to Ashraya Seva Trust, Bangalore
- Providing tailoring machines etc. and financial support for conducting training classes on tailoring to Dr. B R Ambedkar Yuvaka Sanga, Bangalore

IP, Jagdishpur

- Mobile medical van for poor & underprivileged rural people of nearby places of Jagdishpur
- Installation of 100 nos. hand pumps & 100 nos. solar lights in Barabanki District
- Installation of borewell with de-fluoridation system, solar duel pumps, beautification of market area in Raebareli District
- Supply of 2 nos. of air conditioners to National Information Centre, Amethi
- Construction of boundary wall around Kendriya Vidyalaya
- Construction of shed in cremation ground at Aam Ghat
- Supply of 1 no. computer to educational institute in Barabanki District



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एक बेहतर दुनिया की ओर...

IVP, Goindwal

- Providing Benches, Water Cooler etc. to Govt. Elementary School, Goindwal Sahib (Near Baoli Sahib Gurudwara)
- Providing swings roundabouts, slings at Govt. Elementary School, Goindwal Sahib
- Providing Benches, Water Cooler, Swings roundabouts, slings etc. to Govt. Elementary School, Hansawala
- Providing Tri-Cycles, Wheel Chairs, Stretchers etc. to Red Cross, Tarn Taran
- Mobile medical van project in the service of rural poor and slum dwellers near Goindwal and its nearby areas through PHDRDF
- Mobile medical van project in the service of rural poor and slum dwellers in Gurharsahai district Ferozepur, Punjab through HelpAge India

PPPU, Thirumayam

- Construction of Class room at Govt. Elementary School, Neduvasal
- Providing of Teaching Aids for Mentally challenged school at Ambattur, Chennai
- Construction of Swimming Pool at Annavasal, (contributed partly by BHEL) implemented through District Collectorate, Pudukkottai under Self-Sufficiency Scheme (SSS) scheme

PSSR, Chennai

- Infrastructure improvement of Schools, Tuticorin, Tamilnadu
- Infrastructure improvement of Schools, Yermarus, Karnataka
- Setting up diagnostic centre, Kudathini Village, Bellary, Karnataka
- Equipment for vocational training – Pragati Inst. for Reformation of Mentally Challenged, Secunderabad
- Specialized equipments for RMD Pain & Palliative Care Trust, Chennai
- Distribution of mobility aids to physically challenged persons through Freedom Trust
- R.O Unit, Solar Lights, Flush cots to Rehoboth – NGO, Chennai
- Equipments for lab, Little Drops Public Charitable Trust, Chennai
- Rehabilitation of Leprosy affected persons through RK Math, Chennai
- Mobile Medicare Units (1 no.) and running cost for three years

- Environment & Species Protection through reforestation of barren land at Ramdurga, Koppal Dt., Karnataka for 5 years
- Infrastructure improvement in Schools, Malwa Site
- Infrastructure improvement in Schools, Yermaras Site

PSWR, Nagpur

- Providing support for running Mobile Medicare Unit (MMU) in the outreach areas of Nagpur
- Setting up of 10 plants to provide safe drinking water to villages nearby upcoming BHEL plant in Bhandara
- Support for carrying out cataract operations for 200 people through 'HelpAge India'
- Support for Slum area development in Nagpur through registered NGO/external agency/organization.
- Tree plantation with Tree guard
- Setting up/support to school at Nagpur by providing drinking water facility and sanitation/toilet facility through registered NGO
- Organizing a "Multi-speciality Camp" in collaboration with Hospital (Hanumant Hospital) in nearby village of Pipavav site

PSNR, Noida

- Eye check-up and cataract surgery camp through I-CARE Hospital, Noida
- Community-based rehabilitation programme for differently-abled and having multiple disorders with the help of DISHA (NGO).
- Setting up of RO Plants in rural schools near the vicinity of site through NGO 'TWIFF'
- Training and capacity building in different schools (about 20) with the help of Institute of Applied Systems & Rural Development (IASRD) on the topic of Global warming and participation of children in mitigating the climate change.
- Mobile Medical van for providing medical aid to poor and needy people living in the remote areas of Leh
- Mobile medical van for providing medical aid for the flood hit areas of Srinagar

PEM Noida

- Medical Camps (over 500 people covered in each medical camp)
- Conducting various camps for Eye Donation, Blood Donation etc.
- Empowering marginalized community through education and vocational training at JJ Colony Inderpuri through Balsahyog



- Toilets/ Amenities in Govt. Primary School
- Providing Disabled-friendly wheel chair accessible mini-bus for facilitating mobility/transporting students with disabilities in the campus of Jawaharlal Nehru University (JNU), Delhi

RC Puram, Hyderabad

- Construction of additional class rooms and providing furniture, toilets & drinking water facilities in Govt. Degree College for Women Sangareddy, Hyderabad
- Construction of additional class rooms, furniture, toilets & drinking water facilities in Mandal Upper Primary School Madinaguda
- Support to LWC for running spoken english and computer classes in science library premises for benefit of underprivileged children from nearby schools and colleges
- Providing furniture & other equipment to Urivi Vikram Charitable Trust – an Adolescent Counseling Center
- Providing spares and repairs for running of Toy Train Services in Nehru Zoological Park, Hyderabad
- Support to SAHI – Foundation for undertaking Cochlear implant surgeries for 3 nos. hearing impaired children
- Screening Medical Camps and health care support for underprivileged persons in surrounding areas of the unit
- Construction of Public toilets in Wednesday and Saturday market areas of Township
- Providing RO plant and development of dump yard as park in Pati Village, A.P.
- Installation of 2 nos. RO plants in Nalgonda District, A.P.
- Construction of 4 nos. class rooms, pathway and providing furniture, toilets & drinking water facilities in ZPH School Serilingampalli, A.P.
- Construction / Renovation of community center, installation of solar lighting, construction of toilets, infrastructure improvements in school at Thogarpalli, A.P.
- Construction / Renovation of community center, construction of class rooms, infrastructure improvements in school at Ananthasaga Village, A.P.
- Installation of solar lighting at Peddapur Village, A.P.
- Infrastructure improvements in school, construction of class rooms, construction of class rooms construction of toilets in school etc. in Malkapur Village, A.P.

R&D, Hyderabad

- Conducting cataract operations 500 Nos. in 3 years (14 operations per month) through Goparaju Trust

- Part-funding of teachers salary at “Aarambh” working for autism affected children
- Providing staff salary, books, uniform, Independence and Republic Day celebrations etc. at GVSS school at Chandanayak nagar, Hyderabad
- Provision of 150 Dual Desk for students of Zilla Parishad High School at Arthamuru village, Krishna distt.
- Providing 19 steel almirahs for use by the inmates of the old age home and orphanage run by Sai Seva Sangh, Moosapet, Hyderabad
- Organising of 6 medical camps for underprivileged in the vicinity of Hyderabad
- Provision of solar water heating system for SC/ST hostel Medak District
- Installation of solar water heating system for old age home
- 50% funding of 3 nos. special educator’s honorarium for one year for teaching hearing impaired children by Ashray-Akruti at Gandhi Hospital, Hyderabad
- Construction of compound wall at school at Chandanayak Nagar

TBG & IS

- Hemophilia: Heal A Soul-2 : Providing free medical aids (Anti Hemophilic Factors) to 720 persons/children suffering from Hemophilia in 3 years (year 2014-15; 2015-16; 2016-17)
- Hemophilia: Prevention is Better Than Cure: Carrier detection and prenatal diagnosis for 120 women from hemophilic families for prevention of Hemophilia in 3 years (year 2014-15; 2015-16; 2016-17)
- DISHA-Society for Rural Urban Community Development: Education for street children (1260 nos.) and vocational training of 240 youths in slums of Delhi for a period of two years 2013-14 and 2014-15
- Providing solar water heater for cooking and washing in Sri Guru Granth Sahib Vidya Kender, Chattarpur, Delhi
- Distribution of Artificial limbs and medical aid instruments to needy persons in Agra region through NGO ‘Kalyanam Karoti’
- Refurbishment of Swatantrata Sangram Sangrahalya, Red Fort, Delhi through National Culture Fund and Archaeological Survey of India

TP, Jhansi

- Cutting and Tailoring training programmes for poor village girls / ladies of nearby villages of Jhansi Plant
- Distribution of wooden furniture to School of nearby villages of Jhansi Plant



- Creating sports & education infrastructure in the village schools near Jhansi Plant
- Providing hand pump in nearby villages of Jhansi Plant
- Provision of Bus Stop
- Construction of cremation ground with shed in nearby village of Jhansi Plant

Trichy

- Renovation of community hall at Vazhavanthakottai and Krishnasamuthiram village
- Installation of solar street light at Devarayaneri, Navalpattu, PuthuTheru and Pachamalai Hills
- Construction of compound wall in Panchayat Union School and providing borewell & motor
- Construction of class room, class room roofing, compound wall and toilets in Government Primary School
- Construction of public toilet by the side of PU school
- Construction of toilet in Govt. School and Connecting Roof
- Construction of a Well with Pump and Solar Lighting in Pachamalai Hills
- Providing Incinerators to Schools and Colleges
- Skill training to the prisoners of Central Jail, Tiruchirappalli
- To provide Solar street lighting system for Villages and Schools
- Improving the education standard of villages through NGOs like Puthiyathalaimurai Foundation & AID India
- Promotion of Arts: a) providing musical instruments and imparting advanced training through Dr. Chinnamoulana Trust, South Zone Cultural Centre etc.
- To support for feeding one Indian Elephant (Saravanan) and few rare animals in Arignar Anna Zoological Park, Chennai
- To conduct Medical camps in Villages, Schools etc.
- Screening test in view of World "Diabetes" day
- Organ Donation and Eye Donation Awareness through supporting Blind person's marriage by providing lunch and drinking water facilities
- Assistance to Leprosy home (Medical Items)
- Construction of water tank at Thuvakudy Municipality for providing drinking water facility under Self Sufficiency Scheme
- Skill training at TREC-STEP
- Requirements of the school in Railway Colony, Trichy for mentally retarded children to be carried out
- Support to Deaf Enabled Foundation
- Compound wall and Sports material to Govt. SC/ST welfare Boys HS School, Kattur, Papakurichi.
- Setting up garbage collection point in the Uyyakondan canal bank based on the request of Koothappar Panchayat EO
- Providing furniture for PHC at Devarayaneri
- A home for wandering mentally ill persons
- Setting up a project for waste management
- Government Educational Department has asked to build toilets in 20 primary schools in Trichy District
- Providing support to Annai Ashram- Destitute Children Home
- Support by providing four wheeler to pick up wandering mentally ill people
- Compound wall and toilets at PHC
- 5 Ceiling fans to Govt. High School at Thirunedungulam
- Solar power for cooking, Emergency lights and Multipurpose Hall St Antony's Home for the aged, Kattur
- Repairing of drainage & road in Jai Nagar, repair of drainage in 1, 2, 3 wards, fencing of waste collection points (3 nos.) along Uyyakondan bank
- Tree guard – 300 nos., motor and tank for existing bore well, distillation of pond & bathing Ghat with solar lights, Solar lights (25) covering the Panchayat area of Koothaipaar Panchayat
- World-class Community Park at Panchapoor Amphi theatre in 2 acres, construction of cycle track for about 2 KM, solar lights for the entire park, and providing children train with track
- Cycle shed for about 200 cycles, Doors and windows for 3 class rooms, preparing the playground for Football, Volley ball, Basketball & Badminton
- Compound wall for about 700 feet – either through monetary or by material support (out of 1350, 650 have been completed with the help of Dalmia Cement) – St. James Middle School, Kovandakurichy
- Infant Jesus Primary School, Thuvakudimalai
- Slanting bed for Primary school at Udhamangalam, Thittai
- Repair work at Anna Nagar broken compound wall due to loose sand
- Electrical maintenance work for campus schools
- Providing Sewing Machine, Iron Boxes, Agri. hand tools & blankets to needy people



OUR FLAGSHIP PROJECTS

GRID INTERACTIVE SOLAR POWER PLANT IN SCHOOLS OF PUNJAB

BHEL, under its CSR support initiatives, has provided financial support to Kalgidhar Trust (a non-profit charitable organisation) for setting up a 60 KW multiple-grid interactive SPV Power Plant in two of its rural Akal Academies (30 KW each in Akal Academy, Dadehar Sahib and Akal Academy, A Teja Singh Wala of Tarn Taran District, Punjab).

An MoU to this effect was signed on 6th February 2014 at BHEL

office, Noida between BHEL –IVP Goindwal) and The Kalgidhar Trust.

The power produced from these plants will first meet the requirement of the two schools and the surplus power will be fed to the main grid which will also benefit the locals to a great extent.

The Kalgidhar Trust – Baru Sahib is a non-profit charitable organisation dedicated to the cause of providing quality education to fight against the alarming rise in drugs and alcohol abuse. With equal stress on Healthcare, Women Empowerment and Social Welfare, the organisation has been instrumental in the socio-economic uplift of the poor in the far-flung rural areas of North India.

The Trust runs 129 low cost CBSE Schools in the rural areas of Uttar Pradesh, Haryana and Rajasthan, and the backward hilly areas of Himachal Pradesh and Punjab providing modern, value-based education to around 60,000 students. The students, mostly coming from the deprived sections of society, are admitted regardless of their caste, creed, region, religion and social status. The aim of the Trust is to build a total of 500 low cost schools to provide value-based education to all children at the village level.



Inauguration of Solar Power Plant at Akal Academy, Dadar Sahib, Taran Taran (Punjab) by Director-HR

REFURBISHMENT OF SWATANTRATA SANGRAM SANGRAHALYA, RED FORT

One of the focus/thrust areas of activities/initiatives under CSR is promotion of 'Art & Culture'. Under this initiative, BHEL is providing financial support for refurbishment of the museum 'Swatantrata Sangram Sangrahalaya' located in Red Fort, Delhi. The project will be jointly implemented by the Archeological Survey of India (ASI) and the National Culture Fund (NCF), a non-profit Trust under the Ministry of Culture, Govt. of India.

The museum and the Red Fort complex hosts nearly 20 lakh tourists and visitors every year and the numbers continue to increase year-on-year. Therefore, this lends prestige to the endeavour of BHEL and also an opportunity to showcase the company as an important CSR entity with immense positive social and cultural impact on the communities, intellectuals including historians, students, youth, etc.

The museum covers an area of 17,500 square feet and is located within the double-storey barrack buildings inside the historic complex of Red Fort, Delhi. It provides a glimpse into the major phases of India's struggle for independence and covers important themes such as: (i) 1st War of Indian Independence – 1857; (ii) emergence of Indian National Congress; (iii) beginning of the Civil Disobedience Movement; (iv) Quit India Movement; and other struggles of India's journey towards independence. Over 90



Signing of MoU between BHEL, NCF and ASI for the project 'Refurbishment of the museum Swatantra Sangram Sangrahalaya' located in Red Fort, Delhi

artifacts and displays including paintings, dioramas, lithographs, photographs, medals, badges, uniforms, etc. makes the collection very interesting and memorable experience for visitors.

The project broadly covers three areas:

- (i) Up-gradation of museum building including centralised air-conditioning, up-gradation of Security system, CCTV camera, fire fighting equipments, smoke detectors, etc.
- (ii) Improving collection management, cataloguing, documentation and storage



(iii) Landscape around the museum building and visitor facilities including museum shop, café, lockers, providing lift system for the disabled, etc.

The refurbished design of the museum would include: redesigning of the museum galleries; up-gradation/replacement of dioramas with application of modern state-of-the-art

techniques; publications & merchandise; museum map; and catalogues.

The project will be implemented over a period of 02 years plus maintenance of the refurbished museum for a further period of 05 years at a total cost of Rs. 2 crore.

BHEL's "CLEAN GANGA" INITIATIVE UNDER CSR

BHEL has embarked upon yet another innovative and technology-intensive CSR initiative under the 'Clean Ganga' programme of the Govt. The company is partnering with a FICCI-DRDO combine to set up bio-digester toilets in 25 clusters between Haridwar and Rishikesh on the banks of holy Ganga. One cluster will consist of 3 toilets and 3 urinals for men and 5 toilets for women.

This unique and prestigious CSR project, to be implemented over a period of two years, is valued at Rs. 4.65 crore. While the technology provider is DRDO, FICCI will undertake implementation of the project at the ground level. An MoU to this effect was signed between BHEL-Haridwar (the BHEL unit aligned to carry forward this initiative) and FICCI in a function held at BHEL-Haridwar on 02.02.2015.

The salient features of bio-digester toilets are:

- No bad smell in toilets from the tanks
- Fecal matter in the tank not visible
- No infestation of cockroaches & flies
- No clogging of digester
- Effluent is free from off odour and solid waste
- Reduction in pathogens by 99%
- Reduction in organic matter by 90%
- No maintenance required

- No requirement of adding bacteria/ enzyme
- No need of removal of solid waste
- Use of phenyl is permitted upto 84 ppm

Considering that recycling of wastes including solid wastes has been a major area of focus and concern for our country, this bio-digester technology will go a long way in successfully addressing this concern by reducing river pollution including pollution of the holy Ganga to a large extent.



Bio-digester toilet installed by FICCI

EDUCATION THROUGH MOBILE SCIENCE LABS FOR UNDERPRIVILEGED CHILDREN



Village children getting hands-on experience on various science projects through creative & scientific learning

BHEL has embarked upon yet another noble and innovative model of imparting learning for children and teachers from the poor & underprivileged sections of the society. An MoU to this effect has been entered into with a Bangalore-based specialised agency named 'Agastya International Foundation'. This innovative CSR project initiative of BHEL, which aims to create curiosity and a scientific temperament amongst the poor school children and teachers primarily drawn from Govt.

schools, comprises operation of Mobile Science Labs (MSLs) in the vicinity of BHEL manufacturing units located at Jhansi, Tiruchirapally and Haridwar (one MSL for each of the three units). The total cost is Rs.168.56 lakhs, to be spent over a period of three years. Three separate MoUs have been signed between Agastya International Foundation and the BHEL-aligned units Haridwar, Jhansi and Tiruchirapally, respectively.

The program also aims to work alongside the various education entities/departments of the govt. to enhance and promote creative & scientific learning amongst these children and the teachers, thereby making them future-ready in their pursuit for excellence and appropriate career opportunities.

M/s Agastya International Foundation is one of the very few such organisations in this field that runs large hands-on science education programs of this kind in the world. On an average, the agency covers learning sessions for around one million school children 4 times a day in 15 states of the country using more than 100 MSLs and 45 Science Centers. The salient features of the program are: (i) hands-on and interactive learning; (ii) exposure to new ideas, methods of learning; (iii) linkage to school syllabus; (iv) peer-to-peer instruction; (v) multiple interactions; and (vi) Day & Night community visits.



BHEL's SUPPORT DURING DISASTER & CALAMITY

RELIEF EFFORTS IN AID OF HUD-HUD AFFECTED PEOPLE OF VIZAG AND FLOOD-RAVAGED PEOPLE OF J&K



Emergency health camp for the Hud-Hud affected people



Deployment of Mobile Medical Van for the flood-ravaged people of J&K

HPVP unit was a victim of the cyclone. All the production shops and offices were damaged. Due to uprooting of thousands of trees, there was no power and water supply to the factory and township. All the roads were clogged with huge trees uprooted by the cyclone. Teams of volunteers armed with power saws and cranes got into the act and was able to clear the roads in just 3 days. On receiving SOS calls from organisations like, GVMC, APEPDCL, Post Office, SBI etc. our, HPVP team was immediately diverted for their assistance. Alternate office accommodation was arranged for Post Office. Breakfast and Lunch was arranged for the NDRF teams and police personnel who were deployed in the surrounding areas. 150 meals were also arranged for Fire Brigade Personnel.

Emergency Health Camps through Mobile Medical Unit (MMU):

In association with HelpAge India organized Emergency Health Camps in 09 villages near Visakhapatnam – under Kanthi PHC like, Gangwaram, Yarada, Thikkavanipalem, Mutyalamma Palem,

Dibbapalem (V. Cheepurupalli), Chepala Palem, Palavalasa, Dana Boina Palem and Marikavalasa through MMU from 17th to 22nd September 2014. More than 700 patients benefitted from these health camps.

Distribution of Essential Items:

A team from BHEL, PSSR in coordination with the local authorities distributed essential items such as Food, Medicines and Water in the flood-affected areas of Visakhapatnam viz. MVP Labor Colony, Shramik Nagar, China Walt air, Jallara Peta and Beach Road.

BHEL plunged into action to alleviate the sufferings of people severely affected by unprecedented floods in the state of Jammu & Kashmir (J&K). To support the humanitarian cause, the company rushed two of its HelpAge run Mobile Medicare Units operating in Gurusahasai (Punjab) and Leh (NimooBazgo) to effectively engage in medical relief operations for the flood-ravaged people of J & K State.

MEDICAL RELIEF IN THE DISASTER-STRUCK STATES OF J&K AND A.P. INTENSIFIED

After providing emergency medical support/relief to the distraught people of the states of J&K and A.P (Vizag), BHEL further intensified its humanitarian relief activities in the two states by engaging the services of two Mobile Medicare Units (MMUs) – one each for the two states. The MMU project being implemented by Wockhardt Foundation are fully equipped with qualified doctors, medical teams and medicines and will provide Awareness, Diagnosis, Cure and Referral (ADCR) primary healthcare services to the people severely affected by the natural disasters that swept the two states recently.



Flag-off of Mobile Medical Vans at Corporate Office, New Delhi for operation in J&K and Vizag



VALUE EDUCATION PROGRAMME FOR TIHAR INMATES

In a bid to bring about a strong value system and sensitivity amongst jail inmates, BHEL, in association with ISKCON, has taken a new initiative by conducting value education sessions, with emphasis on the message given in the Bhagwad Gita and distributing copies of Value Education books to all the 14000 inmates of the Tihar Jail as well as the Central Jail, Rohini.

The objective of the program is to spread the feeling of belongingness and inclusion amongst the inmates of the two jails. On 19th December 2014, Shri Narinder Thakur, GM (Noida Estate, CSR & HSE) and Dr. Balvir Talwar, AGM (CSR) from BHEL were present to grace the occasion. Shri Girish Pandey, Superintendent of Jail No. 4 and other senior staff of the Tihar Jail were invited to join the program.



Tihar Jail inmates at the value education programme organised by BHEL, in association with ISKCON

There was a Bhajan Sandhya to start with, which was followed by a discourse on importance of inculcating values in life by the senior representatives from ISKCON, East of Kailash, New Delhi. Some of the extracts from Bhagavad Gita as a scripture of highest values that focuses on the righteousness of Karma were emphasized and included in the Value Education session and all were motivated to practice, profess and inherit these teachings.

Filled with love and compassion, Shri Thakur and Dr. Talwar addressed the inmates and motivated them to go beyond their past and make a fresh beginning of their lives with the help of the Value Education book as it has the potential to take them beyond their limited identities which gives them a feeling of deep anguish and pain of being dubbed culprits.

Shri Pandey was then requested to share a few words of wisdom on the auspicious occasion. He reiterated that the eternal message of the book is for every age and a new meaning for every civilization to genuinely empower the inner self of individuals.

Thereafter, 150 copies of Value Education books, both in Hindi and English, were distributed to the inmates and all others present. Irrespective of their caste, religion, country, age, the books were enthusiastically sought by the inmates with an eagerness to understand and utilize its endless and timeless beauty in their lives. The program ended with distribution of prasadam.

A similar ceremony was held at Tihar Jail No. 6, on the 27th December 2014 for the female inmates. They enjoyed the kirtan with ecstasy and looked forward to reading the book so that their lives as well as the lives of their children living with them changed for better. Rest of the jails will also be touched upon with the value-enriched fragrance by organizing such events within the first 2 weeks of January 2015.

Faculties of Delhi Prisons have highly appreciated this initiative and see in it an opportunity that can bring a powerful change in the lives of the inmates who have to deal with the stress of being in a jail where fights, riots, drug abuse, and suicides are not uncommon. They also look forward to many more such opportunities where BHEL can associate with Tihar projects, which the organization will be more than happy to support.



BHEL's Corporate CSR team distributing books on value education to jail inmates







LEARNING & DEVELOPMENT

INTER-UNIT CSR MEET – 21ST & 22ND JANUARY 2015

CSR dynamics are rapidly changing after the enactment of Companies (CSR) Rules, 2014 under the Companies Act, 2013. Several amendments with regard to CSR Rules have come since its enactment. Also, the Department of Public Enterprises (DPE) issued its guidelines on CSR. With a view to understand the pertinent issues CSR, Corporate Office organized an Inter-Unit CSR Meet on 21st & 22nd January, 2015 at New Delhi. Shri R. Krishnan, Director (HR) inaugurated the Meet. Shri B. Shankar, ED (HR & CC), Shri Narinder Thakur, GM (Noida Estate, CSR & HSE) and Dr. Balvir Talwar, AGM (CSR) were also present.

In all, 60 executives from various Units including Corporate CSR team participated in the meet. The two-day meet consisted of four sessions with two sessions allotted for each day.



Director (HR) addressing participants of the Inter-Unit CSR Meet

The session was followed by a discussion wherein the participants cleared their doubts regarding the draft guidelines and provided their inputs and suggestions.

On the second day, the session began with the review of implementation of the CSR initiatives by various units/regions of BHEL. Each and every Unit/ Region/unit presented the details of their on-going projects along with their plan for the year. This was followed by a presentation by Shri Rajiv Jain, on Taxation in CSR and later by a Quiz on CSR.

The last session consisted of interaction with two NGOs viz. M/s Wockhardt Foundation and M/s Agastya International Foundation. The NGOs gave presentations that enlightened the participants about the efforts being made by them for betterment of the society.

Apart from Shri B. Shankar, ED (HR&CC), Shri C.K. Shrikhande, ED (PSNR), Shri Rajiv Garg, ED (CS & IT), Shri K.K. Seth, ED (HRDI, NIC & CPG), Shri K. Purswani, ED (Corporate Quality) and Shri Manoj Verma GM (HR - IS, OP, TBG & ROD) chaired various sessions of the meet and gave valuable inputs about effective conductance and carrying forward of our CSR initiatives.



Participants of the Inter-Unit CSR Meet with Director (HR) and ED (HR & CC)

The first session covered deliberations on the draft procedural guidelines on implementation of BHEL's CSR policy. The presentation on the same was given by Dr. B. Talwar, AGM (CSR) with Shri B. Shankar, ED (HR & CC) in the chair. The procedural guidelines enlists details of CSR projects which BHEL plans to undertake in line with the Companies Act, 2013 and the new DPE guidelines on CSR.

IICA CERTIFICATE PROGRAMME (ICP) IN CSR

Section 135 on Corporate Social Responsibility (CSR) under the Companies Act, 2013 is a piece of landmark legislation that provides an enabling framework for companies to play a more proactive role in nation building. With over 14,000 companies slated to spend more than Rs. 16,000 Crore on CSR activities, Indian companies require to adopt those CSR initiatives that have a programmatic, rupee measurable approach rather than being mere charity. This has created a tremendous demand for a large pool of trained CSR professionals by companies, and implementing agencies, to derive maximum impact from their CSR projects.

To meet this critical need, BHEL officials are being imparted training on a 9-month certificate course by the National Foundation for CSR

(NFCSR) at the Indian Institute of Corporate Affairs (IICA) which is India's first Certificate Programme - **IICA Certificate Programme (ICP) in CSR**. The CSR training programme content has been prepared and compiled by the Learning & Development (L&D) Vertical at the National Foundation for CSR (NFCSR), IICA.

The course is specifically designed to take the participant from a universal, generic / global perspective to the specific Indian situation that is emerging post the new legislation. There is a useful mix of theory and applied / action research in the content. Successful participants of this course would become change agents thereby heralding the dawn of a new development sector era in this country.



LEARNINGS AT BHEL ON CSR

The idea that interns just go around stapling official papers, get printouts and answer phones is not true at BHEL. My experience at BHEL has been extremely rewarding, educating and most importantly exciting. The exposure that I have been receiving as an intern is nothing less than what any full-time employee of BHEL gets, of course, the stress level has been comparatively less but that too because of the immense support by my project guide.

In my first assignment, I was given an overview of the CSR policy and initiatives of BHEL and was given a lot of material to study which gave me an insight as to how BHEL's CSR functions.

Second assignment— I along with my peer intern was given an opportunity for being a part of the team for hosting the Inter-Unit CSR meet of BHEL that was organized by CSR Department. During the meet, I gained great confidence while hosting and learned about the intricacies of the functioning of various projects and problems faced by the units during implementation. Seniors officials chairing various sessions at the event suggested the ways/ means to overcome those problems. I also got the opportunity to get involved in various CSR events at BHEL viz. Flag-off ceremony of Mobile Medical Vans project to be implemented through Wockhardt Foundation and 'Heal a Soul' – a CSR initiative by BHEL to support hemophilic patients to be implemented through Hemophilia Federation (India).

In my third assignment— I was given the task to visit various CSR project sites in Delhi/NCR which enhanced my field exposure. The site visits included visit to SPYM (Society for Promotion of Youth and Masses) at Mukherjee Nagar and a visit to Tihar Jail on the occasion of the event on Value Education to Tihar inmates through which I gained knowledge/insight into the NGO's working for the underprivileged that I could never have learned in the classroom.

I also got an opportunity to attend and observe a very important meeting where my seniors were deliberating the CSR procedural guidelines in which they were also looking for our suggestions. I was amazed to see the kind of interest the officials were taking in terms of mentoring their interns.

All-in-all, my experience was great and enriching, contrary to my expectation as I was very scared about interning at BHEL. But it all went very smooth and at the same time, got to learn a lot. From my time as an intern, I gained knowledge, contacts, experience, understood corporate ethics, enhanced communication skills and most importantly the boost it gave to my confidence in my abilities as a student and as a valuable member of the workforce. All my mentors (Supervisor and Project guide) overwhelmingly supported my efforts. Even the slightest of good things that I did and accomplished were appreciated by them.



PARMITA MATHUR, INTERN



SONAL TALWAR, INTERN

"One must learn, by doing the thing, for though you think you know, you have no certainty until you try." ---Aristotle

In life, as it is in learning, the value of hands-on experience cannot be underestimated. Before interning at BHEL, I only had the theoretical knowledge about Corporate Social Responsibility and was not able to fully relate to the projects and activities that were taking place in various firms.

In my first week at BHEL, I was introduced to the basic concept of CSR, need for CSR and why should each and every organization undertake CSR activities. Our supervisor helped us in understanding the guidelines and the steps that are followed in BHEL while organizing any CSR activity.

I along with my peer intern got an opportunity to attend and host the Inter-Unit CSR meet that involved discussions about projects that are being handled by various units/regions of BHEL. This event provided me with an exposure to the projects that are being handled by BHEL Units and I was also able to understand the pre-requisites of the projects as well. The presentations made by these units provided an insight about problems and the difficulties faced by the units. The task of anchoring the CSR meet enhanced my communication skills to a great extent as it was my first attempt and with the expert guidance of our supervisor, it was appreciated. The most important learning provided by this Meet was the corporate ethics that we were exposed to. I also got opportunities to draft write ups/articles for publishing in the magazine 'CSR Prayas'.

Site visits are a part of the internship and they were very well planned by our supervisor. We visited Society for Promotion of Youth and Masses (SPYM) at Mukherjee Nagar and were able to view the contribution made for the rehabilitation of the juveniles supported by BHEL as part of its CSR initiatives. We also got an opportunity to visit Tihar Jail on the occasion of the event – Value Education book distribution to Tihar inmates. It was a rewarding experience as we got to observe a part of their daily routine.

The internship at BHEL till now has provided us with a new insight as to what is expected out of an employee. In addition to the specialized skills of my field and the expert communication skills provided, BHEL has also helped me to hone up my interpersonal skills, computer proficiency and team work.



NATIONAL LEVEL CSR PROGRAMMES

SWACHH BHARAT ABHIYAN



BHEL contributes Rs.20 crore to Swachh Bharat Kosh – CMD, Shri B. Prasada Rao and Directors handing over the cheque of Rs. 20 crore to Shri Rattan P. Wattal, Secretary, Deptt. of Expenditure. Dr. R.S. Katoch, Secretary (DHI) is also present

Swachh Bharat Abhiyan is a national level campaign of the Government of India covering 4041 towns to clean the streets, roads and various other infrastructure facilities of the country.

The campaign was officially launched on 2nd October 2014 at Rajghat, New Delhi, where Prime Minister, Shri Narendra Modi himself wielded broom and cleaned a road. It is India's biggest ever cleanliness drive with 3 million government employees and students of various schools and colleges of India participating in the event.

The campaign aims to accomplish the vision of 'Clean India' by 2nd October 2019, 150th birth anniversary of Mahatma Gandhi and is expected to cost over Rs. 62,000 Crore. It is driven by intense patriotism and has no political overtones.

Prime Minister has appealed to every citizen of the country to devote at least 100 hours a year for cleanliness work voluntarily. The Government has also allocated around Rs. 2 lakh Crore for the next five years in order to make India clean by 2019. The entire mission aims at complete elimination of open defecation, constructing public and community toilets, maintenance of toilets, municipal solid waste management, cleaning of roads & pavements and most important of all, changing the mind-set of the people and encouraging them to be cleanliness conscious.

All organizations including the Central Public Sector Undertakings (CPSUs), on 2nd October 2014, joined the Clean India campaign by pledging their support including financial aid under Corporate Social Responsibility (CSR) initiatives. The Government has set up the Swachh Bharat Kosh (SBK) so that big and small corporations provide help to the mission by



BHEL's Delhi-based Sports enthusiasts participated in the Walkathon event at Raj Path



Shri B. Prasada Rao, CMD, BHEL, administered the cleanliness pledge to employees of BHEL's Corporate office, Delhi on October 2



donating funds under their CSR initiatives and also to attract funds from individual volunteers.

The most important aspect of the Swachh Bharat Mission is to build Toilets for rural households and sanitation complexes for girls and boys in the schools. The campaign has already got overwhelming support from corporate houses as part of their CSR as well as celebrities joining in to make it a mass movement. As per Census 2011, 113 million households do not have toilets, which means nearly 50% of households in India still defecate in the open being exposed to health hazards, harassment and shame.

Girl dropout ratio from schools in rural India after Class V is 50%, where lack of separate toilet facility for girls in government schools is one of the central de-motivating factors for dropouts.

CMD, Shri B. Prasada Rao exhorted all employees to dedicate at least two hours a week for cleanliness. CMD, Director (HR) and Director (Power) also took a round of the office and made observations towards improving cleanliness and upkeep of office premises.

Slogan writing as well as a painting competition was organized for school children at BHEL Delhi premises along with prize distribution. Gifts were also given to the workers as a token of appreciation for playing an important role in ensuring cleanliness at the workplace.

Similar functions were organized at various Units, Regions, Sites, Townships of BHEL across India. 'Swachhta Shapath' was taken in more than 50 locations of BHEL in different languages including Hindi, English and regional languages, by BHEL employees, township residents and contract labours who assured that they would work towards keeping BHEL premises clean.

Activities organized in several of the BHEL Units are as follows:

BHEL-Bhopal: Cleanliness drive was started by cleaning the factory premises and removing garbage lying near the blocks/offices. Township Administration cleaned Piplani near Shastri Market which had become a dumping ground for garbage. After demolishing some dilapidated structures the entire area was cleaned and converted into a park. More than 1000 saplings were planted and the area was renamed as Shastri Park. On the auspicious occasion of 2nd October, the park was inaugurated by Executive Director, BHEL Bhopal. At Shastri market, toilets were renovated and many other cleanliness drives were organized along with Hospital staff, Trade Unions & Associations, Jawaharlal Nehru School, Vikram School and the Kasturba College of Nursing, Habibganj.



Cleanliness drive in the premises of HPVP, Vishakapatnam



Cleanliness drive in Shastri Market, Piplani, BHEL, Bhopal

BHEL-Haridwar: Becoming a part of this noble campaign, the Executive Director initiated the drive for cleaning the entire factory premises under the banner of "Swachh BHEL - Swachh Bharat". In addition, multi-utility saplings were planted at the community center by CSR group of the unit. Members of BHEL Ladies Club also joined hands in cleaning the area. The shopkeepers also joined BHEL employees in cleaning shopping centre complex at Sector - 1.

Power Sector - Southern Region, Chennai: The campaign was launched on 2nd October 2014 at all Sites, Service After Sales and at the PSSR Head Quarters in Chennai. It started with oath taking ceremonies where all employees participated in the cleaning of offices, shop floors, drivers' cabins, water drains, nearby roads, etc. Workplaces were decorated, debris, papers and garbage was removed. Emphasis was on the 5S concepts & importance of systematic cleaning approach in all areas of work both at office and at homes. Office areas were painted and repair work done, which brought a major change in the appearance of the premises. Exclusive webpage for Swachh Bharat was created on PSSR Web portal to promote awareness and monitor the progress by uploading all photographs related to the Campaign.

BHEL, Corporate R&D, Hyderabad: The Staff led by ED (R&D) enthusiastically cleaned their work places and surrounding roads. Thick bushes and wild grass grown in the campus were cut. Cleaning of Medical Centre, Project Offices, Guest House, Creche and Play Grounds was taken up in the Township Complex. Special dustbins for disposal of Bio-Medical waste were created separately at the Medical Centre. Cleanliness success stories with photographs are being uploaded on BHEL internet webpage for inspiring the employees and reinforcing the culture of cleanliness. The company is fully committed towards the cause of creating a clean India and will continue to improve the cleanliness in and around the premises. Additionally, BHEL has contributed Rs. 20 Cr. towards Swachh Bharat Kosh. This small contribution of BHEL will bring a big change by not only providing a hygienic and healthy environment for everyone around, but also more importantly bring a shift in the mindset of people, in turn taking the project further to the next higher level. BHEL, in its full capacity, will make sure that the campaign culminates into a key sustainable project, revamping the image of our Nation as 'Swachh Bharat - Vatavaran evam vicharon se shudh'.

For details log on to 'http://www.bhel.com/swachh_bharat_mission/swachh_bharat_mission.php'



Rally by BHEL-Jhansi employees



BHEL-Haridwar employees planting saplings



Cleaning of roads outside BHEL, Kribhco Bhawan, Noida



BHEL employees weeding out wild grass



View of Kakatiya Site office – PSSR (before and after its painting)



View of RINL site office (before and after its cleaning)



REJUVENATING THE GANGA

Ganga, the name that has been associated with purity and sanctity has been worshipped in India for centuries and has been a home to great dynasties which flourished along its banks. Millions of people depend on it for their daily needs in 11 states and it supports a huge ecological system within itself. Some studies suggest that the Ganga retains more oxygen than its typical comparable rivers, thus giving it a self-cleansing property of destroying disease causing bacteria. The holy towns of Haridwar, Allahabad, Varanasi, Kanpur and Unnao are located along its banks, which attract millions of pilgrims coming all round the year for a holy dip in the sacred river.



Devotees performing aarti at one of the ghats of Holy Ganges

Now, the Ganga has become one of the most polluted rivers in the world with level of pollutants being more than 3000 times than the permissible limit defined by the WHO as 'safe' for human use. The main causes for pollution can be attributed to:

- **Human Waste:** The river flows through 29 cities with population over 100,000; 23 cities with population between 50,000 and 100,000, and about 48 towns. A large proportion of the waste in the Ganges is from this population through domestic usage like bathing, laundry and public defecation.
- **Industrial Waste:** Countless tanneries, chemical plants, textile mills, distilleries, slaughterhouses, and hospitals contribute to the pollution of the Ganges by dumping untreated sewage and solid waste into it.
- **Religious Events:** During festival seasons, over 70 million people bathe in the Ganges over a few weeks to cleanse themselves from their sins. Some materials like food, waste or leaves are left in the Ganges for ritualistic reasons.
- **Construction of Dams:** Built in 1854 during the British colonization of India, the Haridwar dam has led to decay of the Ganges by greatly diminishing the flow of the river. The Farakka Barrage was built originally to divert fresh water into the Hooghly River but has since caused an increase of salinity in the Ganges, having a damaging effect on the ground water and soil along the river.

Viewing all these issues, the government had initiated the Ganga Action Plan (GAP) which was launched in January 1986 in order to reduce the pollution load on the river but this plan was withdrawn on 31st March 2000. A million litres of sewage was targeted to be intercepted, diverted and treated in phase-II of the program which also included the following tributaries of the Ganges: Yamuna, Gomti, Damodar and Mahananda.

In the budget tabled in Parliament on July 10, 2014, the Union Finance Minister announced an integrated Ganga development project titled Namami Ganga and allocated Rs. 2,037 crore for this purpose. Major work are for improving the sewage infrastructure, rehabilitation & upgradation of the existing sewage treatment plants and stopping the industrial pollutants.

A "Clean Ganga Fund" has been set up as an independent trust by the Govt. of India led by eminent personalities to check pollution of the holy river. The donation to this fund shall be recognised by the Government and this shall help in bringing innovation and technological know-how for cleaning the river. There are many ways to participate in the project apart from donating to the fund, like, adoption of ghats, launching pilots for new technologies, plantation of trees along the banks, conducting research activities, spreading awareness, etc.

BHEL has been devoted towards social and environmental causes since its inception, and Clean Ganga mission is a great opportunity for the organisation to strengthen the societal image of the company and further add a feather to its cap. BHEL is fortunate to be having two of its establishments at Haridwar and Varanasi on the banks of the river Ganga. The company is already supporting this noble initiative by installation of 25 sets of Bio-Digester toilets on the river side at Haridwar & Rishikesh. BHEL is also fully geared up to meet the challenge and contribute to this noble initiative by way of:

- Adopting prominent Ghats in Haridwar and Varanasi
- Developing technology for detoxification of sewage
- Contributing to the Clean Ganga Fund
- Spreading awareness in the community towards keeping the holy river clean



Dumping of sewage and solid wastes in the Ganges



SOLAR & RENEWABLE ENERGY



Solar panels of the 5 MW Solar Photo Voltaic (SPV) plant at BAP, Ranipet

For BHEL, sustainability is about achieving prosperity by balancing social equity and staying within the tolerable limits / capacity of the environment. At BHEL, we believe in doing business in a sustainable manner that extends across the spheres of our Business strategy, environmental action, social support and governance. The relationship between the company and its products, employees, customers and the society is - to use the unavoidable metaphor - like 'a river, the deeper it gets the less noise it makes'. It has been just a natural extension of the way BHEL saw itself and its responsibility. For almost fifty years of its existence, company has been leveraging technology and innovation for providing products, systems and services to its customers and enabling them to use resources with better efficiency and productivity which is also evident from its Mission Statement – "Providing

Sustainable Business solutions in the fields of Energy, Industry & Infrastructure".

To enhance overall solar energy absorption during the day by PV arrays, BHEL has developed a modular solar thermal sun tracker which operates on a novel liquid balancing system. It enables generation of 25% additional energy during the day. BHEL has supplied more than 55 MWp (suffix P denotes peak power) Solar-PV clean energy systems to various customers in India. This includes the following:

S. No.	Place of installation	Rating (MWp)
1	NTPC, Singrauli	12
2	NTPC, Unchahar	10
3	NTPC, Talcher	10
4	Indian Oil Corporation Ltd at Rajasthan	5
5	Karnataka Power Corporation Ltd, Raichur, Karnataka	3 + 5
6	BHEL Ranipet	5
7	Indiabulls, Nagpur	2+2
8	Indiabulls, Bareilly	2
9	Solar power sets at Lakshadweep islands	1.9



Bird's Eye View of 5 MW SPV Power plant at BAP, BHEL, Ranipet

India continues to experience shortages in energy with total deficit of 8.7% and peak deficit



of 9.0% during 2012-13. The persistent shortages of electricity, both for peak power and for energy makes it imperative for the industries to utilise energy in a most judicious manner. BHEL, being a major player in the power sector, is all the more sensitive towards this fact and makes a conscious effort to minimize use of non-renewable energy resource and maximization of the use of renewable energy resources and thus moving towards sustainable energy mix in its operations.

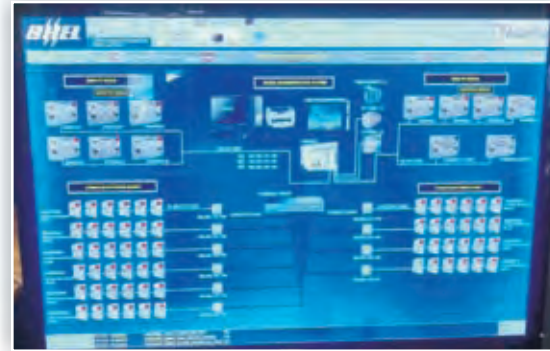
Thrust areas in BHEL pertaining to generation/ use of Renewable Energy are:

- Installation of Roof Top Solar PV Systems
- Installation of Solar Water Heating Systems
- Installation of Grid interactive SPV Power Plant (sub MW and MW scale)
- Installation of Solar Street light

BAP Ranipet unit is the first unit to install a 5 MWp capacity grid interactive solar power plant. Salient features of the project is given in figures below.

Salient features of BAP Ranipet 5 MWp plant:

- Generation capacity of around 25000 Units per day, 7.2 Million unit a year.
- Power generated will meet the entire factory power requirement which is having average per day requirement of 20000 to 22000 units.
- Reducing Carbon Emission by producing Green Energy.
- Erection and commissioning complying Statutory requirements completed in 2013-14 itself.
- Major materials supply by EDN Bangalore



Solar Plant Configuration in the SCADA monitor at BAP Ranipet

Technical features of BAP Ranipet 5 MWp plant:

- Out of the 5 MW commissioned, 3 MW panels are of fixed type.
- The 4th MW panels are of “Seasonal Tilt Type”. These panels can be tilted based on the inclination of sun’s rays during various seasons, to get maximum generation.
- The 5th MW panels are equipped with “Single Axis Tracker”, which automatically position themselves tracking the position of Sun.
- This 5th MW SPV plant uses in-house developed products of our sister unit, EDN Bangalore like PV modules of higher rating, SCADA, Module Cleaning system, inverters & SMU.



View of the 5 MW SPV power plant's control room (R) and its 11 kV grid (L)



AGREEMENT SIGNINGS & INAUGURATIONS



Signing of MoU between BHEL-Haridwar & FICCI for installation of 25 clusters of Bio-digester toilets on the banks of Ganges



Signing of MoU between PEM, Noida & JNU for providing Bus for commuting by differently-abled students of JNU



Signing of MoUs by BHEL-PSNR, Noida and BHEL-HPVP, Vizag with Wockhardt Foundation for operation of Mobile Medical Van in J&K and Vizag



Signing of agreement between BHEL, Jhansi and Agastya International Foundation for Mobile Science Lab



Signing of MoU between BHEL, Haridwar and Agastya International Foundation for Mobile Science Lab



Signing of MoU between BHEL-TBG, Noida and Hemophilia Federation (India) for support to Hemophilic patients



AGREEMENT SIGNINGS & INAUGURATIONS



Signing of agreement between BHEL, Trichy and Agastya International Foundation for Mobile Science Lab



Inauguration of iJal Station in one of the villages of Bhandara



Officials & guests quenching their thirst by enjoying pure drinking water at iJal Station inaugural ceremony



Inauguration of iJal Station in a location of Telengana State



MoU signing between BHEL-PSWR, Nagpur & Safe Water Network (India) for installation of 10 R.O. Plants (iJal stations) in villages located in the vicinity of BHEL's Bhandara Plant (Maharashtra)



Handing over Mid-day Meal Van to Akshaya Patra Foundation by BHEL-EDN, Bangalore



BHEL to provide 3 mobile science laboratories

At a formal dinner, BHIL, the largest unit on the island, M'Painché, president, and manager (human resources) of the station, and K. Asoy, chief operating officer, Agaya International Foundation, exchanged the BHIL documents.

Painché said BHIL had been supporting various programs under the CSR programme to improve education, health, training, skills, employment, and infrastructure for the underprivileged. He observed that BHIL

At a function organised at BHEL premises here on Tuesday, M P Palniveel, General Manager, Human Resources, and K Thyagarajan, Chief Operating Officer, Agastya International Foundation, Bangalore exchanged the MoU documents in the presence of senior officials of the unit.

Speaking on the occasion, Palniveel said that BHEL had been supporting various projects under its CSR programme to improve education, health, standard of living and employability for the underprivileged. ENS

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AWARDS & ACCOLADES



Hon'ble Union Minister, Shri M. Venkaiah Naidu presenting Skoch Order of Merit Award for best CSR project "Vision to all... BHEL's Call" towards eradication of corneal blindness to Shri B. Prasada Rao, CMD, BHEL



Corporate CSR team receiving Silver Plate Award from HelpAge India



Corporate CSR team receiving Pt. Madan Mohan Malviya Award for contribution towards best practices for the society in education sector



OUR CSR FOOT PRINTS

(Focus area-wise)



FOCUS AREA	COLOUR
Community Development	Red
Education	Blue
Health Management	Purple
Energy Conservation & Environment Protection	Green
Infrastructure Development	Pink
Skill Development	Yellow
Vocational Training	Brown

Note: Not to the scale. Locations in the map are indicative it may differ from real.



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