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QUARTERLY NEWSLETTER OF BHORUKA POWER CORPORATION LIMITED

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Editorial Board: Team Bhoruka

Dear Friend

Bhoruka Power is happy to announce the commissioning of our largest Wind Farm yet, the 25.5 MW Yelisirur Project in Gadag District, Karnataka. Construction activities for the 180 crore project has been completed in a record time of 12 months from date of initiation of land purchase to commissioning.

The project consists of 17 machines of 1.5 MW each supplied by GE Energy. The Farm formed into three rows, have all been interconnected through 33 KV lines feeding into a 110 KV/33 KV pooling substation done by ABB. The power from this station is evacuated into the nearby 110 KV KPTCL substation at Shirahatti.

The GE machines are of the State of the Art and are operated and monitored through SCADA and have very superior power curve, maximizing the Plant Load Factor.

The project finance was through a combination of International Debt provided by DEG Germany and Proparco France and a rupee debt from Axis Bank.

We are thankful to all the stakeholders who have contributed to the successful commissioning of the project.

With the commissioning of this project, the Green Energy capacity of the Company has gone up to nearly 150 MW.

With best wishes

S. Chandrasekhar



CORPORATE NEWS



Shivaputrappa joined BPCL in September 2000 as Trainee Engineer. Qualified as a Diploma holder in Mechanical Engineering, Shivaputrappa found a good break to his career when he chose to work with BPCL. Ever since, he has grown and developed as a professional through rich exposure to world-class processes and operations in hydro power production. The opportunity that BPCL has offered through its

various training programmes has helped Shivaputrappa move up the corporate ladder through improved knowledge and learning. Beginning his tenure with BPCL at Shahapur, Shivaputrappa was transferred to Manadagere from where he currently operates.

Shivaputrappa and his wife Shailaja have two children and enjoy a great family life. His elder daughter Kavya studies in 7th standard and his son who is younger, studies in 2nd standard. A man with a spiritual leaning, Shivaputrappa spends time doing yoga, reading spiritual books and Kannada novels. He has groomed himself immensely with his love for reading books on personality development. An energetic individual, he often enjoys a game of badminton. An optimist who has a tendency for positive thinking, Shivaputrappa loves simple living and is respected by his friends and family. We wish Shivaputrappa the very best.

Mehiboob Sab Karnool joined BPCL as Helper in



July 1999. Having begun his career with the company at Shivapur, Mehiboob came on board as a young energetic individual who quickly endeared himself to all his colleagues though his willingness and enthusiasm to carry out his duties with efficiency and care. He worked at Shivapur for almost a decade before he was shifted to Rajankollur where he is

Know your Colleague

presently posted. Mehiboob has been a worker who has oftentimes expressed his desire for learning and personal development, which has been well-tapped by the BPCL culture for training its people. Although Mehiboob has been hired as a helper, he steps across his mundane area of work and performs shift technician duties efficiently. A great team player, Mehiboob is popular among his colleagues and friends. He has also completed a two-year JOD course from TB Dam.

Mehiboob is a dedicated family man who is spiritually oriented and enjoys a simple way of life. A man of many interests, Mehiboob likes reading, watching TV, traveling and spending time with family. A pleasant and helpful individual. Mehiboob is well-liked by friends and family. We take this opportunity to wish Mehiboob all good wishes in his future endeavors

CAPABILITY BOOSTER



▲ Training on different types of extinguishers at Sattegala

Revised Schedule VI:

M Raghavendra Rao, Assistant Manager (Accounts), attended a Training Programme on 13th April, organized by KPMG Accounting Advisory Services, Bangalore.

Testing, Maintenance and Protection of **Power & Distribution Transformers:**

H S Anjan Kumar, Senior Engineer (Electrical) and Irnagowda S Patil, Senior Engineer (Electrical), attended the 2-day Workshop at Bangalore on 20th and 21st April organized by Centre for Training Education and Training in Power Engineering.

Tenders & Contract Management 2012:

B T Jaisimha, Manager (Contracts), attended the 2-day Workshop on 23rd & 24th April at Bangalore, conducted by Indian Knowledge



▲ The First Aid training session had the participation of employees in SRD Katte

Hydraulics in Hydropower Plants:

Rajneesh Kumar and Yogesh Kumar from Dadupur; and J Prakash Kumar, from Sattegala, all of them Engineers (Mechanical), participated in the 3-day course organized by Yuken India Ltd., Bangalore, from 18th to 20th June, at Bangalore,

ISO 9001:2008:

An ISO QMS & IQA Training Program was conducted by an expert team from ICS Pvt. Ltd. The 3-day training program which was held between 22 - 24th May at Dadupur, was attended by all BPCL staff members.

Mock Drill in fire extinguishing:

A mock drill in the use of fire extinguishers was conducted at the powerhouse in Dadupur. All staff members and workers participated in the drill and were appreciative of the experience and learning.

On 29th May, the mock drill along with awareness program was conducted for all engineers and workmen in Sattegala

DECADE SERVICE AWARD

Our hearty congratulations go out to all those who have stood by us for the last 10 years. BPCL acknowledged their valuable presence in the company with BPCL-branded wristwatches.

- Channareddy, Helper, Shahapur

- Channareddy, Helper, Shahapur
 Siddappa, Helper, Shahapur
 Basavaraja G, Helper, Shahapur
 Mallikarjun B G, Helper, Shahapur
 Basavaraja C M, Helper, Shahapur
 Peerzad S A H, Electrician, Shahapur
 MD. Hasnuddin, Electrician, Shahapur
 Indudhar B Angadi, Electrician, Neria
 Sanjeevareddy, Helper, Shahapur
 Mareppa G P, Helper, Shahapur
 Girimallappa, Helper, Shahapur
 Rayappa S G, Helper, Shahapur
 R Lakshminarayana, Helper, Mandagere
 Umesh B V, Helper, Shahapur
 Chikkabheemssh, Helper, Shahapur
 Kumar Venkanna, Senior Engineer
 (Mechanical), Chayadevi

- G G Manjegowda joined as Assistant Engineer Trainee (Mechanical) at SRD Katte on 2nd April
- K V Naveen Kumar joined as Assistant (System) Administration) at Corporate Office on 9th April
- Nisarg Joshi joined as Deputy General Manage (Business Development) at Corporate Office on 1st June ■ H J Anil Kumar joined as Assistant
- Engineer Trainee (Mechanical) at Manjanadaka on 11th June



CONGRATULATIONS

- (Trainee), Mechanical, Sugur, on his marriage with Nirmala on 26th April
- Ankur Kamboj, Assistant Engineer, with Neetu Kamboj on 15th April

CORNER

My boss asked me to start the presentation with a joke. I attached payslip on the first slide...

> I WORK FOR MONEY IF YOU WANT LOYALTY... GET A DOG!

Poor young chap... he attended a seminar organized by Management... "admit mistake and earn respect"... he admitted one... they sacked him!!!





BPCL celebrates WORLD **ENVIRONMENT**

"Let's make the earth a better place" is every that reflect their concerns for the environment. To year's clarion call on World Environment Day to all the nations to unite for conservation. BPCL moves with the rest of the world for the same cause. We encourage employees to individually focus on energy conservation at work and home, participate in environmental events, and take other actions

draw everyone onto a single thought platform on environment, we celebrate the World Environment Day with involvement, fanfare, fun, activity and competition where everyone participates, appreciates the effort and has their voice heard on the value of environment.



At Shivapur, the Plant Manager spoke on the importance of environment awareness. To mark the event saplings were planted in the site premises



At Shahapur, the Conference Hall was the center of celebration, where a function was held with the celebrated Shri. Rekhu Chawan, as the Chief Guest. Shri. Chawan was honoured with National Award for "The Best Teacher" and was honored by the President of India in 2008. An interesting debate was conducted for engineers and workmen and prizes were given away to the winners. The Chief Guest planted a sapling in Scheme #3 garden area.



At **Mandagere**, all teams participated in planting fruit tree saplings in the powerhouse premises. Awareness

At Manjanadaka there was much excitement among the engineers as they got together to plant jackfruit saplings on the plant premises



At Rajankollur, all employees were present to plant the saplings

At Madhavamantri, all employees came together to observe the event and plant saplings

The Neria team planted saplings. Sugur team their will to protect and enhance greenery. A major greeted the day together with programmes on agenda to plant 300 saplings and protect the environmental awareness. At Sattegala, the existing 200 trees has been taken up by the team. celebrations spun around the theme "Preserving The spirit was strong at SRD Katte as well. the environment for future generations". All Saplings were planted and awareness speeches WORLD ENVIRONMENT DAY



The Yelisirur team kept up with the BPCL spirit and joined in with their share in the green initiative

participants spoke on this occasion and expressed were made.





QUALITY QUOTIENT: ISO 9001:2008

ISO 14001:2004 OHSAS 18001:2007





- A meeting of the local coordinates was held for review of documents, surveillance and internal audit observation points at Neria (South Zone) and Shahapur (North Zone). The ■ An application has been submitted by meeting was convened by Mr. G Gangadhar and Mr. Ramu Joshi, the chairpersons for the respective zones.
- 2nd Surveillance Audit was completed for Chayadevi, Shahapur, Sattegala, Madhavamantri, Mandagere and Corporate ■ An application has been submitted for the Office, by a team from M/s. ICS Bangalore. The first surveillance audit has been completed for Dadupur station by M/s ICS



The First External Surveillance Audit at Dadupur

The auditing team were appreciative of the documentation system and suggested a few points for improvement.

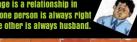
- the teams at Shivapur, Shahapur, Madhavamantri & Chayadevi stations for the National Level Safety Awards Competition under the manufacturing sector category. The event is conducted by NSCI.
- Golden Peacock Award for the best "Environment Management Best Practices" category for the year 2012 for Shivapur station.





The BPCL team of budding cricketers participated in the Cricket Tournament organized by Concern India Foundation which conducts these events to mobilize resources for social causes. As a company that is strongly dedicated to serving the community as part of its corporate objectives, BPCL was pleased to participate in the event and help Concern India's projects to uplift the weaker sections of our society.

Marriage is a relationship in which one person is always right and the other is always husband.





The Yelisirur wind project has taken shape, holding the promise of emerging as one of our most successful projects.

Civil

turbine foundations and pooling stations has been completed. Substations for all locations have been completed. Surface finishing work for WTGs is in progress.

Electrical

All civil work involved in the construction of the The 110 Ky transmission line was energized and the pooling station was commissioned on 26th April. Electrical work at all substations have been completed with the erection of equipment and transformer. The laying of all control and power cables has been completed.







Mechanical

The erection work and commissioning checks on all wind turbines has been completed.





SHIVAPUR | SHAHAPUR | RAJANKOLLUR | SRD KATTE | MADHAVAMANTRI | MANDAGERE | SUGUR | MANJANADAKA | DADUPUR | SATTEGALA | NERIA



■ Annual Maintenance

At Shivapur, the annual maintenance work was started with a formal Ganga Pooja on 9th April. As part of the maintenance works, plans are on to replace the Munirabad and Sindanoor SF6 line breakers with ABB breakers which incorporates the latest technology. The existing line breakers are outdated models, with spares being extremely difficult to procure during replacements. The rest of the maintenance work is moving at a fast pace and is expected to be completed soon.

■ Fire Services Week

The Fire Services Week which set off demos on 20th April, was observed with overwhelming participation from employees. Demos on the



Maintenance work on generator under progress

use of various types of fire extinguishers during emergencies were explained. Awareness programmes on the causes of different types of fires were held. All employees participated in the sessions. Brochures on road safety and personal hygiene were distributed.



Awareness session on Fire Services Day

■ LPG Usage

A training session on the usage of LPG was held. The session had the participation of all staff members, who were very appreciative of the learning from the session.

SHAHAPUF



Breaker retrofitting under progress

Annual Maintenance

At Shahapur, the team of enthusiastic engineers were quick to take up the annual maintenance chores one after the other and update on the major works taken up this time.



The canal repair work is making progress

complete them successfully on time. All work has been completed in schemes #1, 2, 4 and 5. Scheme #3 and D9 are moving at a heady pace and will be completed soon. Here is a quick

- Over 16 guide vanes were discovered to be badly rusted in the guide wheel assembly units in schemes 1, 2, 4, and 5. A capable team of workers were deployed to remove the rust through sand papering, chipping and grinding with the help of a machine. The guide vanes were painted with red oxide. The unit was checked for 'quide vane bedding clearance' and 'runner blade radial clearance' (which is the mandatory gap between runner blade and runner chamber) under both open and close conditions. All the parameters were within permissible limits.
- A check on the power canal in Scheme # 4 identified 9 major instances of sliding of the canal lining wall which obstructed the free flow of water. Repair and reconstruction work has been taken up, with 7 spots being completed till date. The remaining two areas are under progress and is expected to be completed shortly.

RAJANKOLLUR

■ Canal closure flurry

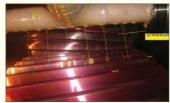
The team at Rajankollur set out to complete the canal closure work as per schedule. Maintenance work is underway and will be completed soon. Major work has been taken up on unit #2 gear box. Turbine couplings and gear box bearings have been replaced as there was a misalignment between the gear box and the generator. Unit #1 gearbox maintenance was also taken up this year.



Gear box maintenance work in Unit #1



Gear box generator alignment work is in progress



Verification of new pinion contact in gear box

■ Machines all set!

The maintenance work at Neria has been completed and the machines are all set for generation. Work at Neria began on a positive note and went on smoothly without any hitches. The enthusiastic team of engineers were focused on completing the tasks on schedule.



Engineers engrossed in maintenance work

■ Green all around

The Neria Plant Site is situated in utterly serene environs. The spiritual aura of a temple town adds to Neria's natural charm. Our employees at the site draw personal pride in maintaining the gardens and developing the greenery with flowering plants, fruit saplings and lawn grass.



Rains did nothing to dampen religious sentiments during the Ganga Pooja

BOSS to an employee: "Do you believe in life after Death?". EMPLOYEE: "Certainly not! There's no proof of it", he replied. BOSS: "Well, there is now. After you left early yesterday to go to your uncle's funeral, he came here looking for you.

MADHAVAMANTRI

Annual Maintenance

Racing ahead of the other plant sites, the team at Madhavamantri has completed all tasks in all units, as per the annual maintenance schedule. A brand new high-speed gearbox manufactured by M/s. Triveni Gears, Mysore, was installed and commissioned for Unit #3 on 24th May. Load trial was recorded. The performance of the gear box has been found satisfactory.

■ Fire Safety Day

On 14th April a minute's silence was maintained in homage to the victims of the fire accident at the Mumbai dockyard on 14th Aprill 1944. Professionals in remote corners of the globe still join the families of the victims in praying for the souls of those who perished.



New thrust bearing replacement for U# 1 Gearbox

Dr. B R Ambedkar remembered

On 14th April, the Madhavamantri team took a moment to remember Dr. Ambedkar on his 121st Birth Anniversary. It is truly heartening to note that the team members, is spite of a busy schedule, did not forget one of India's greatest sons and social mentor.

■ Safety enhancements

Various safety enhancements were thought out and implemented at the plant site to better the work environment and ensure greater safety for the employees.



Dr. Ambedkar Jayanthi participation

MANDAGERE HYDEL PLANT

■ Civil work on power canal

A team of TCE and BPCL engineers from Bangalore visited the Mandagere site on 4th May to inspect the power canal from zero chainage to 1100m. The visiting team came up with a list of valuable suggestions and possible enhancements on the civil front. The task list was taken up after a Bhoomi Pooja performed by a local temple priest. The major civil work for this year centers around civil modification in the canal and is being taken up meticulously. The work is expected to be completed in a short while.



Civil work in the power canal was exhaustive



DGM (O) inspects the machinery



Gear box maintenance work by team



TVM meters are being calibrated

■ O & M

The annual maintenance work was completed for both units within the scheduled time in all aspects for all three departments. Regular calibration of TVM meters by the MRT team was carried out. The slipped portion of the RRM wall at zero point was rectified.



Pooja before machines were started

■ Power generation

At SRD Katte, the annual maintenance work was systematically completed without delays or hitches. As the BPCL tradition would have it, a Ganga Pooja was performed and the beautifully spruced up machines were restarted. The plant is slowly progressing on power generation ensuring minimized downtime of machine breakdown.

DANDEL HYDEL PLANT



The color coded TG unit



A view of the strengthened overflow weir ■ Civil maintenance work

The 3 x 4.33 MW power station in Dandela. which utilises the discharge of Dandela falls in Netravathi River to generate electrical power for supply to the state grid, has been a picture of

activity and bustle in the last quarter. The work on the civil front included modification of the overflow weir in many areas. A study of the weir revealed the need for the construction of RR masonry on the downstream side of the existing weir. The construction work which was given to M/s. M S Infrastructure, Puttur on 7th March, was completed on 5th June.

■ Electromechanical Closure Works

Maintenance work has been completed on the electro-mechanical front. All three machines are ready for generation. TG units have been painted and meticulously color coded as per the ISO standard

SUGUR HYDEL PLANT

Annual maintenance

The erecting work of the missed braces on the 33KV transmission line is under progress. The team of engineers are working round the clock to ensure the speedy completion of the task.

■ CDM Audit

The CDM Audit was completed successfully by Mr. Sudarshan K V, Project Manager, ACS on 29th May. The auditor was happy with the performance of the plant site and expressed his appreciation of the housekeeping and maintenance by the team at Sugur.

DADUPUR HYDEL PLANT

■ Highest generation in Dadupur

Dadupur ushered in the highest monthly generation of 2.173 MU till date. This beat the earlier figure of 1.969 MU which was recorded in November 2011

■ 2nd Anniversary

Dadupur woke up to the completion of its second year of success and glory on 19th March. To mark the occasion, a special Satya Narayana Pooja was organized setting the day off on a spiritual note. Sweets were distributed and sporting events were held to commemorate the event. Prizes were given away to the winners in the sports events. The participation was complete and the spirit of the event upheld the pride of the employees in the success of the plant objectives.

■ Efficiency Test

An expert team of professionals lead by Prof. B K Gandhi from AHEC IIT Roorkee paid a visit to the Dadupur plant site to conduct an Efficiency Test on Unit #2 and #3 for part load and full load, as well as the response time for relay panels. They were happy with the findings which were within acceptable limits.

■ Students visit

Dadupur had interesting visitors as a group of Degree students from 'Doon Valley Institute Of Engineering & Technology', Karnal, visited the plant site to learn about operations in a world



Performance test by IIT Roorker



Satvanaravana Pooia on Anniversary day

class hydel plant. Our team of engineers, known for their courteousness to visitors, were extremely warm in ushering the students around the plant site, answering their enthusiastic queries. The students were delighted with the first hand knowledge that

they were able to gather from the experts.

Unit #1 generator rotor being installed

Visitors

The Deputy Chief Electrical Inspector from Mysore, along with Electrical Inspector from Hassan visited our plant on 17th April for periodical inspection of electrical installations. DGM (O) visited the plant site on 12th May for an inspection of E & M and progress of the major civil task. He was taken around the site by our team of engineers who answered his queries on various civil responsibilities.



the annual maintenance tasks and race ahead of the others on 4th June. A formal Ganga Pooia was performed at the weir at zero point. before the machines were started.

Erection of unit #1 generator rotor was quickly completed after replacement of faulty coils



Invoking God's blessings during Ganga Pooja



CDM Audit at Sugur



Ganapati Homa on Anniversary Day

■ Sattegala's 5th year!

There were over 225 members who came together to celebrate Sattegala's 5th year of successful operations. The mood was festive, the spirits were high and everyone shared a great day together.

■ The 30 MU mark!

The financial year 2011-12 has been a rocking year for the Sattegala team with the plant crossing the 30 MU mark in power generation. The figure took the current record to a new high beating all previous records. The current recording was 4 MU more than the one recorded last year for the same period.

■ Powerhouse spruced up

Establishing and maintaining a world class powerhouse has been a tradition at BPCL, where no stone has been left unturned in identifying and fulfilling areas for improvement in appearance and neatness of powerhouse buildings. At Sattegala, the powerhouse has been beautifully painted on the both the inside and outside. A false ceiling has been fabricated in the control room to spruce the interiors.



Control room after false ceiling



Sopanam is being constructed

CSR in-deed!

To fulfill a promise made to the villagers, a 50 meter Sopanam is being constructed near the Shiva Temple in the Sattegala village range. The villagers are extremely happy and have expressed their gratitude.

Safety to public and personnel

To ensure safe commuting for the public and personnel, a chain link fence has been put up for 500 meters along the right side of the tail race canal where the approach road coincides. With this facility all commuters move along this path comfortably without any fear.



Annual maintenance work under progress









▲ SHG Meeting at Hemmige

Health Awareness programme at Chikka Mandagere

Education

Outstanding SSLC Results from Bhoruka School, Shahapur!

The Bhoruka School staff and students were ecstatic with a 100% SSLC results that they were able to pick up this year. Two students excelled with 92% distinction scores, 23 students passed with a first class, six with second class and two with pass class. To add to the honor, D9 station area rural high school also achieved 100% results. The Shahapur plant manager personally visited the two institutions and congratulated the principals and teachers for their excellent contribution.

Four of our employees' children have passed SSLC with a first class and were recognized with a wrist watch by the Shahapur staff.

Science Exhibition: Helped by the Shahapur team, the teachers and students created models on renewable energy power to participate in the science exhibition.

Bhoruka School Shivapur, also achieved 100% SSLC results.

Mamata Gadad, daughter of BPCL Shivapur employee, Mr. Devaraj G, topped the class with 84 %. Out of 34 students, 19 students passed with first class, 7 with second and 8 with pass. Sri Kanteppa, Deputy Manager, Shivapur, announced Rs. 1000/- for the highest scorer in the last three years. The Head Master and staff expressed their gratitude for his sponsorship.

Netaji Scouts, a new scouts unit has been started by the school to build leadership qualities and discipline in the children.

Community Development

Hemmige

Revolving fund: 10 SHGs from Talakad have received revolving funds of Rs. 10,000/- each from the Government Department in appreciation of the success of their activities.

Adolescent Awareness Programme was organized for 40 girls at Talakad, Ms. Bharathi from Bharath Cancer Center, Mysore, conducted the programme.

| SHG statistics | |
|--------------------------------|---------------|
| Total number of SHGs | 175 |
| Total saving | Rs. 68,60,403 |
| Total micro finance assistance | Rs. 39,20,000 |
| Micro finance recoveries | Rs. 24,03,137 |
| Bank loan linkage | Rs. 47,80,000 |

Skill Development: 75 Girls have completed Skill Development Training courses in Tailoring, Fashion Designing and Computer Applications (BASIC, DTP and TALLY).



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Renewable Energy model for science project A



Computer training as part of the skills 4 development programme had the participation of many young people



Mamata Gadad did her school proud

PRDT Prabudhan Rural Development Trust

Mandagere

SHG Linkage - Government Department: Six SHGs have received a promotional grant of Rs. 4500/- each from 'The Women and Child Development Department', K.R. Pet. All six SHGs have been promoted by PRDT, Mandagere

Bank Linkage: Sree Bannikalamma Self Help Group, Alenahalli, has received a loan of Rs. 75,000/- from Vijaya Bank, Mandagere, to take-up various income generation activities. So far, 23 SHGs were linked to Vijaya Bank and obtained loans worth Rs. 24,10,000/- to take up various small scale businesses that would generate steady income for them.

PRDT Micro Finance distributed Rs. 1,00,000.00 to Sree Vinayaka SHG, Alenahalli. Rs. 50,000/- to Sree Vinayaka SHG, Shravananahalli and Rs. 25,000/- to Sree Shambhulingeshwara Disabled SHG, Alenahalli, under PRDT Micro Finance to take up various income generation activities.

Skill Development - Computer: 10 students have successfully completed three-month computer training on Computer Diploma in Office Management (Windows, MS-Office and Nudi Kannada Software). They received certificates from Prabudhan Rural Development Trust (PRDT) Mandagere.

Health

A Health Awareness Programme was conducted at Chikka Mandagere in collaboration with Taluk Health Department, K.R. Pet, on 'Mother and Child Health Care'. 43 people participated in this programme. ANM Conducted the Programme by displaying IEC Materials. Mr. Nagaraje Gowda, Senior Health Inspector, was also present during the programme.







