Annexure-VI

Corporate Environment Responsibility Report

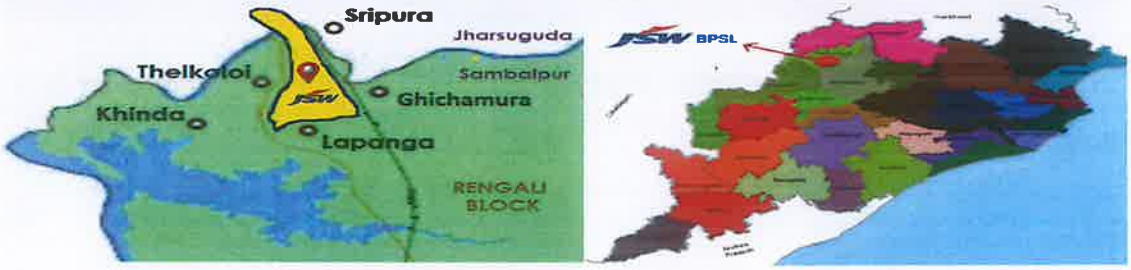
of

Bhushan Power & Steel Limited (BPSL)

(Transforming Communities Through Sustainable Development)

(Period FY'21 to FY'26)





Empowering Communities • Enriching Lives • Building a Sustainable Future

JSW BPSL

JSW BPSL Sambalpur Works,
Thelkoloi, Lapanga PO,
Rengali, Sambalpur, Odisha,
768212, India

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Chapter I

Introduction

JSW BPSL's CER/CER/CSR initiatives focus on inclusive growth, sustainable development, and community empowerment, guided by a structured policy aligned with Section 135 of the Companies Act, 2013.

Overview of Policy

Bhushan Power & Steel Limited (BPSL) has a formal Corporate Social Responsibility Policy applicable to its operations across India, including its integrated steel plant at Jharsuguda, Odisha, and downstream facilities in Chandigarh, Derabassi, Kolkata, and Bengaluru. The policy emphasizes inclusive growth, social empowerment, and long-term sustainability, aiming to strengthen social capital and improve health, education, and employment opportunities in local communities. CER/CSR activities are planned in alignment with state and national laws, and the policy is reviewed periodically by the CER/CSR Committee and the Board of Directors.

Key Focus Areas

BPSL's CER/CER/CSR interventions are community-led and integrated, targeting the following thematic areas :

- **Education**: Strengthening rural education and vocational training programs.
- **Healthcare**: Provisioning secondary and tertiary healthcare, improving public health systems, and promoting hygiene and sanitation.
- **Livelihoods**: Facilitating women-centric livelihoods, agribusiness initiatives, and skill development programs.
- **Environment Sustainability**: Water conservation, environmental protection, and promoting sustainable practices.
- **Responsible Citizenship**: Encouraging community participation and social development initiatives.

Implementation and Governance

The CER/CSR strategy is implemented through structured planning, financial allocation, and manpower engagement. The CER/CSR Committee oversees project selection, budgeting, and monitoring, ensuring alignment with statutory obligations and the company's long-term vision. BPSL coordinates its CER/CSR activities with the broader JSW Group policies, leveraging synergies for greater impact.

Financial Allocation and Reporting

While specific expenditure details for BPSL are not publicly itemized in the latest report, JSW Steel, the parent group, provides a benchmark for CER/CSR commitment. For FY 2024-25, JSW Steel allocated Rs. 297.42 crore for CER/CSR, of which Rs. 189.27 crore was spent on projects, and the remaining balance was deposited in a designated escrow account for future initiatives. This structured approach ensures that funds are available for ongoing and upcoming CER/CSR projects.

Community Impact

BPSL's CER/CSR initiatives are designed to create measurable and sustainable impact in communities surrounding its operations. Programs are implemented in Direct Impact Zones (DIZ) near facilities and may extend to Indirect Influence Zones (IIZ), ensuring broader community reach. The interventions focus on long-term empowerment, improving access to education, healthcare, and livelihood opportunities, while promoting environmental stewardship.

Compliance

CER/CSR activities at BPSL are conducted in strict compliance with Section 135 of the Companies Act, 2013, and the relevant rules and amendments. The company ensures that statutory obligations take precedence over other conventions or best practices, maintaining transparency and accountability in all CER/CSR operations.

In summary, JSW BPSL's CER/CSR framework is a structured, legally compliant, and community-focused program that integrates social development, environmental sustainability, and inclusive growth, reflecting the company's commitment to creating long-term value for society. The CER/CSR activities are being undertaken in 10 revenue villages by dividing the area into Zones as per the following.

- **Direct Impact Zone (DIZ)**: 17 revenue villages around the plant periphery consisting of 44 hamlets.
- **Indirect Impact Zone (IIZ)**: Sambalpur & Jharsuguda district & special projects.
- **Target Population**: ~50 thousand (this includes migrant workers living in the surrounding villages of JSW BPSL Plant.

CER/CSR annual report has also been uploaded on the company website periodically.

Chapter II

Community Infrastructure Development

Various community infrastructure projects have been undertaken including construction and renovation of community centers, roads, bus shelters and public utility infrastructure across project-affected villages.

(i) **Road Development**:

As part of its Corporate Social Responsibility (CER/CSR) initiatives, BPSL has undertaken road development projects to strengthen community infrastructure and improve connectivity in nearby villages. The initiative focuses on constructing and upgrading internal village roads, approach roads, and key connecting routes to ensure safe, reliable, and all-weather access for residents. Improved road infrastructure has enhanced access to schools, healthcare facilities, markets, and public services, while also facilitating the transportation of agricultural produce and essential goods. By promoting better mobility, reducing travel time, and improving road safety, the project has contributed to the overall socio-economic development and quality of life of the surrounding communities, reflecting BPSL's commitment to sustainable and inclusive growth.



Development of Road, Banjibeŕna to Derba, Ghichamura



Village Road Construction, Kultapada to Lapanga, Lapanga

(ii) School Infrastructure Development:

The Company has undertaken large-scale development of educational infrastructure including construction and renovation of schools, classrooms, Anganwadi Centres and educational facilities in peripheral villages. Support has also been extended to 32 schools under the State Government's Mo School Programme, benefiting thousands of students.

- **ECCE Programme**: 20 Nos. Of Anganwadi Centers have been ISO Certified benefiting over 900 children.
- **Hamara Gaon Programme**: Strengthening foundational learning for over 1800 students.
- **Mannat Center**: Inclusive therapy and education for 38 specially abled children.
- **Udaan & Umeed scholarship**: Empowering 1023 students through scholarships for professional courses.
- **JSW School Bus**: Ensured education access for 96 students.
- **School Infrastructure**: Improving facilities across 26 schools, 2642 students.
- **Support to District Administration for School Infrastructure**: Mo School, Sambalpur (60 Schools) & Udiyan Tara, Jharsuguda (238 Schools)





Construction of New Building for Thelkoloi High School, Thelkoloi

BHUSHAN POWER & STEEL LTD. THELKOLOI SAMBALPUR



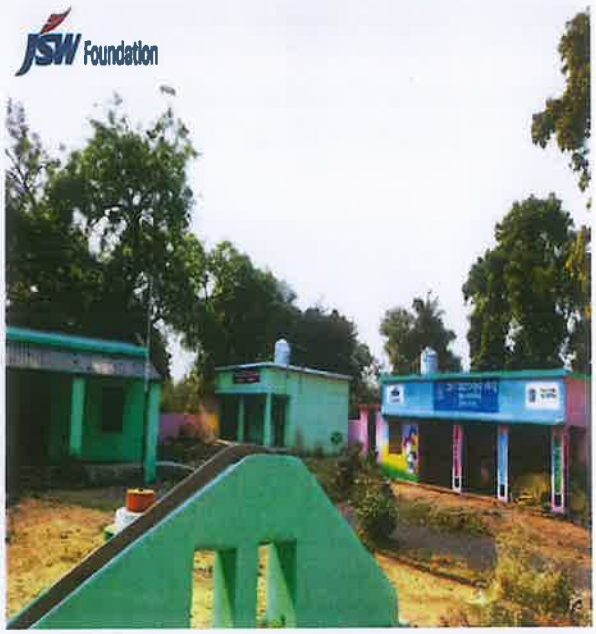
Renovation of Anganwadi Center, Banjiberna



Govt. Primary School, Dhubenchhapal (Gountiapada)



Anganwadi Center, Dhubenchhapal (Gountiapada)



(iii) **Renovation of community centers & Installation of Bus Shelter:**

BPSL has undertaken the renovation of community centres and public toilets to enhance essential community infrastructure and improve public health and well-being. These renovated facilities provide safe and accessible spaces for social gatherings, community meetings, cultural events, and public use.

Through this initiative, BPSL has contributed to creating cleaner, healthier, and more inclusive community spaces, thereby supporting the overall quality of life and sustainable development of the surrounding villages.



Renovation of Community Center near Durga Mandap, Thelkoloi



Installation of Bus Shelter (2 Nos), Thelkoloi



Construction of Community Toilet (Combined), PDF Colony, Thelkoloi





Construction of Community Center, Banjiberna



Development of Bus Stand, Sripura Chowk



Development of Community Center, Sripura





Development of Community Center, Sardhapali



Development of Community Center, Khadiapali



Development of Community Center, Aailakani Derba



Chapter III

Rainwater Harvesting/ Pond Renovation

Several village ponds and water bodies have been rejuvenated and developed with bathing ghats, retaining structures and beautification measures, contributing towards water conservation and community welfare.

BPSL has undertaken pond renovation activities to restore traditional water bodies and improve water security in nearby communities. The intervention typically includes desilting of ponds, strengthening of embankments, removal of invasive vegetation, repair of inlet and outlet channels, and enhancement of the overall water storage capacity. Renovated ponds facilitate groundwater recharge, provide reliable water for irrigation, livestock, and domestic use, and help improve local biodiversity and ecological balance.

The initiative also contributes to increased agricultural productivity, reduced seasonal water scarcity, and improved resilience of rural communities by ensuring sustainable management and conservation of water resources. Such interventions align with national objectives for the repair, renovation, and restoration of water bodies to promote long-term environmental sustainability and community well-being.



Cleaning & Rejuvenation of Brahamanpada Pond, Thelkoloi



Construction of Bathing Steps and Female Changing Room at Demul Pond, Khadiapali



Excavation of pond at Kumdhapada, Derba



Construction of Bathing Steps & Female changing room at Gountiapada Pond, Dhubenchhapal

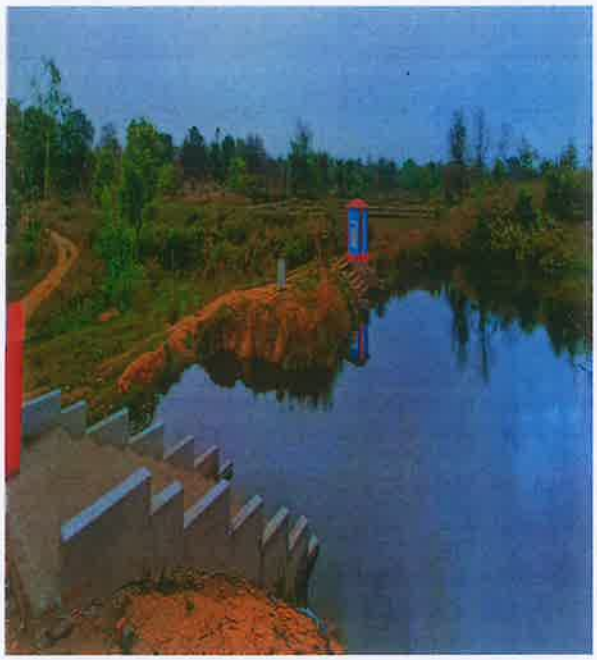




Development of Bathing Step & Female Changing Room at Ghuhuti Pond, Sripura



Construction of female changing room and Bathing step at Sunamal Pond





Pond rejuvenation at Talipada with female changing room & bathing steps

Chapter IV

Health Care Facilities

BPSL has undertaken various healthcare interventions to improve access to quality medical services in surrounding villages. The initiative focuses on strengthening rural healthcare infrastructure through the organization of regular health camps, provision of essential medicines, preventive health screenings, maternal and child healthcare services, immunization support, and awareness programmes on nutrition, hygiene, and disease prevention.

In addition, support is extended to local health centres by providing medical equipment, improving basic healthcare facilities, and facilitating specialist consultations and referral services where required.

These interventions have enhanced access to primary healthcare, promoted early diagnosis and timely treatment, and contributed to improving the overall health and well-being of rural communities, particularly among vulnerable groups such as women, children, and the elderly.

Healthcare – Mobile Medical Unit

- The Mobile Medical Unit (MMU) programme provides doorstep healthcare services across 25 locations in Sambalpur and Jharsuguda districts. The programme includes medical consultations, diagnostic tests, specialist camps, health awareness programmes and referral services, benefiting thousands of villagers annually.

Community Dispensary

- Community Dispensaries established under CER/CSR provide accessible healthcare services including medical consultation, medicines, laboratory diagnostics and preventive healthcare services to local communities residing in peripheral villages.

Community Ambulance Service

- The ambulance service provides emergency transportation support to residents of Direct Impact Zone villages and facilitates timely access to healthcare facilities during medical emergencies.

Trauma Care Infrastructure

- JSW JFE Steel Limited has supported the establishment of advanced trauma care facilities including Modular Operation Theatre, ICU, HDU, diagnostic services and emergency care infrastructure in government healthcare institutions.



Regular Health Camp, Derba



Community Ambulance, Sripura



Medicine Dispensing, Thelkoloi



Multi-Speciality Health Camp, Thelkoloi



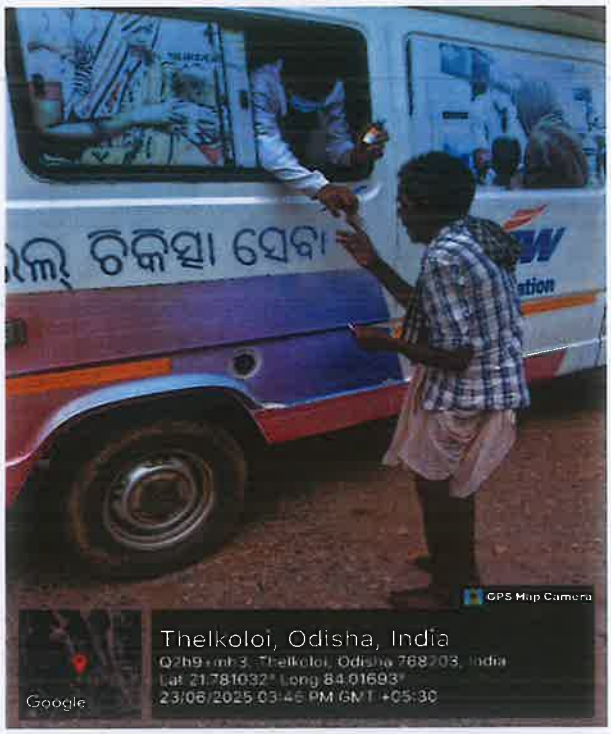


Regular Camp, Dhubenchhapal

~~Home Visit for Bedridden Patients,~~
Banjiberna



Pathology Test, Sripura



Medicine Dispensing, Kherual





Regular Camp, Sardhapali



Regular MMU Camp, Sunamal

Regular Camp, Maliatikra



Regular MMU Camp, Sunamal

Chapter V

Drinking Water & Sanitation

BPSL has supported initiatives aimed at enhancing access to safe drinking water and improving sanitation standards across neighboring villages. Key interventions include the installation of borewells, hand pumps, piped water supply systems, water purification units, and the development of community-based drinking water infrastructure to ensure a reliable supply of potable water.

Efforts have also been made to construct and upgrade sanitation facilities in schools, public institutions, and other community spaces, complemented by awareness campaigns on hygiene, safe water handling, and sanitation practices.

These measures have helped reduce the prevalence of water-borne diseases, encouraged healthier lifestyles, and strengthened the overall well-being and living conditions of rural communities.

Water, Sanitation and Hygiene (WaSH)

- The WaSH programme promotes ODF+ villages, sanitation infrastructure, scientific waste management and drinking water access. Activities include toilet construction, repair and maintenance, household waste collection, waste segregation and community hygiene awareness.

Mini Sanitation Park (MRF)

- A centralized Materials Recovery Facility (MRF) has been established to process household waste, promote recycling, generate compost and create sustainable livelihood opportunities for local Self-Help Groups.

Sustainable Menstrual Hygiene Programme

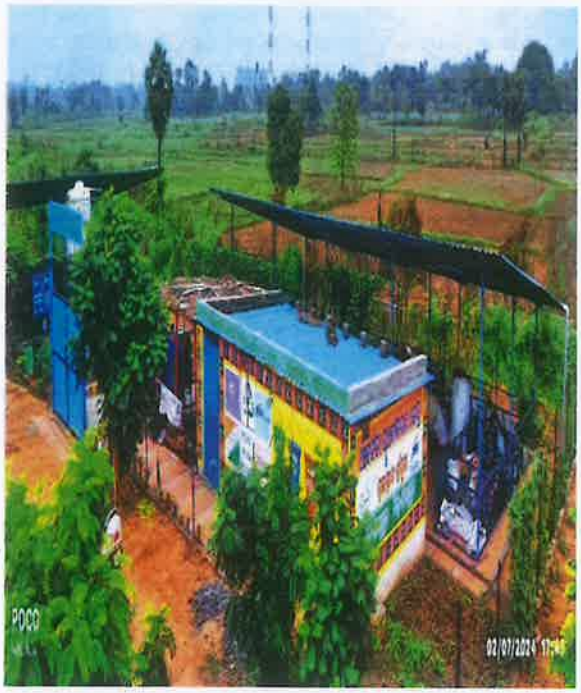
- The initiative promotes safe menstrual hygiene practices among adolescent girls and women through awareness programmes and distribution of reusable sanitary napkins.



Sanitation work at Market Area, Thelkoloi



Drinking Water Supply at Dhubenchhapal



Material Recover Facility Center, Sripura



Waste Collection, Sunamal



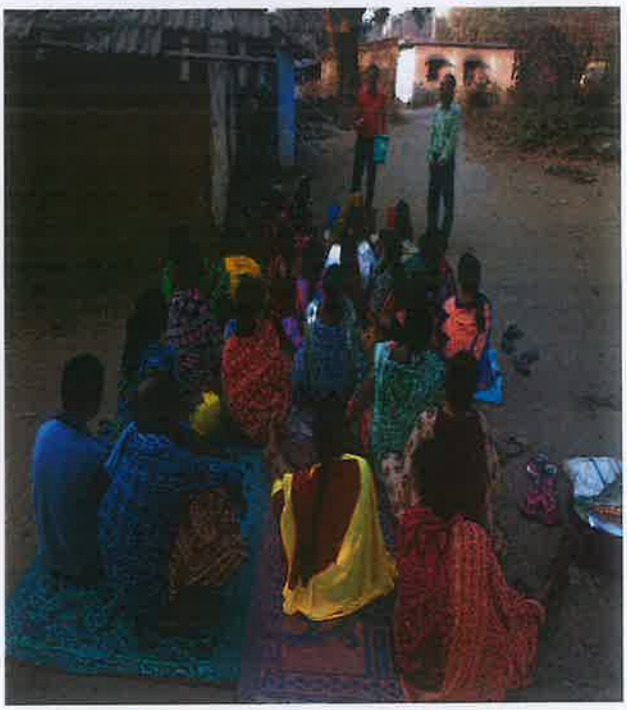
Sanitation work, Sunamal



Drinking Water Supply, Khadiapali



Drinking Water Supply, Maliatikra



Waste segregation demonstration, Maliatikra

Chapter VI

Vocational Training Arrangements for Women and Youth

BPSL has promoted livelihood enhancement by facilitating vocational training programmes for women and youth in neighbouring communities, with the objective of improving employability and fostering self-reliance.

The initiatives encompass skill development in trades such as tailoring, embroidery, handicrafts, computer applications, electrical and mechanical skills, retail operations, and entrepreneurship, based on local needs and market demand.

Participants are provided with practical, industry-relevant training to strengthen their technical competencies and income-generating potential.

By equipping women and young people with marketable skills, these programmes have expanded employment opportunities, encouraged entrepreneurship, and contributed to the socio-economic development of the surrounding communities.

Women Empowerment & Enterprise Development

- The programme supports women-led enterprises including weaving, mushroom cultivation, poultry, floriculture, agri-retail, food processing and micro-enterprises, strengthening rural livelihoods and economic empowerment.

Women's Cooperative Society

- A women-led cooperative society has been formed to facilitate access to finance, enterprise development, market linkages and credit support for rural women entrepreneurs.

Sports Promotion

- CER/CSR support is extended towards development of sports infrastructure, football grounds, volleyball courts, sports tournaments and youth engagement programmes to encourage physical fitness and community participation.



Mushroom and Backyard Poultry activites, Sunamal



Broom and Dairy activities at Maliatikra





Puffed Rice Unit & Vegetable outlets, Sripura





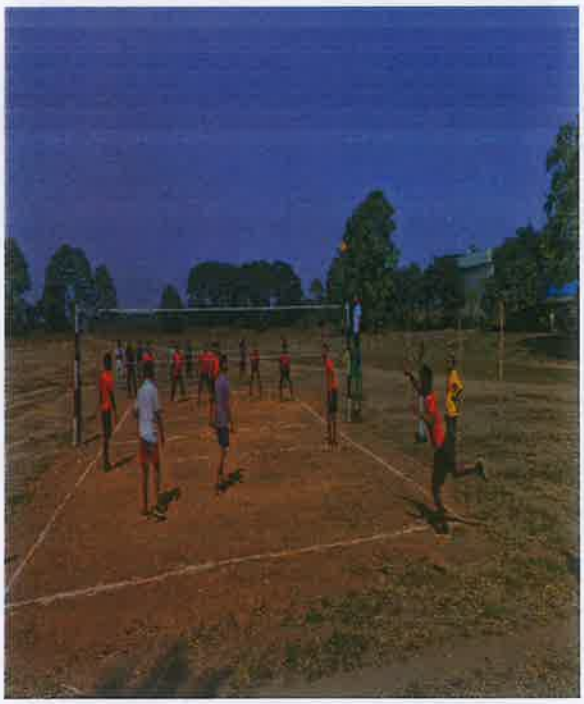
Phenyl and Backyard Poultry Activities at Thelkoloi Village



Sewing training Center, Thelkoloi



Promotion of Sports, Thelkoloi (FY 2023-24)



Development of Volleyball Ground, Thelkoloi



Mushroom activities at Dhubenchhapal



Promotion of Sports, Dhubenchhapal



Weaving Unit, Banjiberna



Sewing training Center, Sripura



Mushroom activities at Kherual



Goat rearing activities at Sardhapali



Promotion of Sports, Khadiapali



Enrollment of Students in Udaan & Umeed Scholarship, Derba



Broiler unit, Derba

Chapter VII

Education

BPSL has undertaken several initiatives to strengthen educational opportunities for children and young learners in surrounding communities. The programmes focus on improving learning infrastructure through the renovation of school buildings, development of classrooms, provision of furniture, learning materials, digital education resources, and support for libraries.

Assistance is also extended through scholarships, academic support programmes, and extracurricular activities to encourage student participation and improve learning outcomes.

These efforts have helped create a more conducive learning environment, increased access to quality education, reduced barriers to school attendance, and supported the overall academic and personal development of students in nearby villages.

Education

- JSW JFE Steel Limited has implemented extensive educational initiatives in the project-affected villages covering Early Childhood Care & Education (ECCE), primary education, special education, scholarship support, and infrastructure development.
- Twenty Anganwadi Centres have been upgraded with facilities such as nutrition gardens, play corners, teaching-learning materials, water supply, sanitation, and child-friendly learning environments.
- The Hamara Gaon Programme supports 30 schools through foundational learning initiatives, while the Udaan & Umeed Scholarship Programme provides financial assistance to deserving students pursuing higher education.

Special Education for Children with Disabilities

- The Mannat Centre provides specialized therapy and educational support for children with autism, ADHD, speech delays and developmental disorders through dedicated therapeutic interventions aimed at enhancing their physical, cognitive and social development.



Half-Yearly ECCE Mela, Derba



TLM Camp by Mother's Group, Khadiapali



Learning Camp, Maliatikra



Handwashing Practice by Students, Thelkoloi



School Readiness Activities with Mothers and Children, Thelkoloi

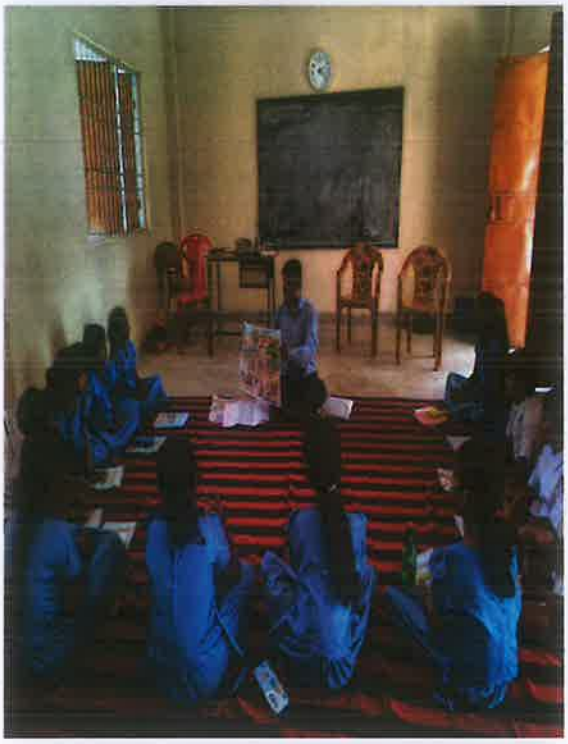


Paper Collage Activity, Dhubenchhapal





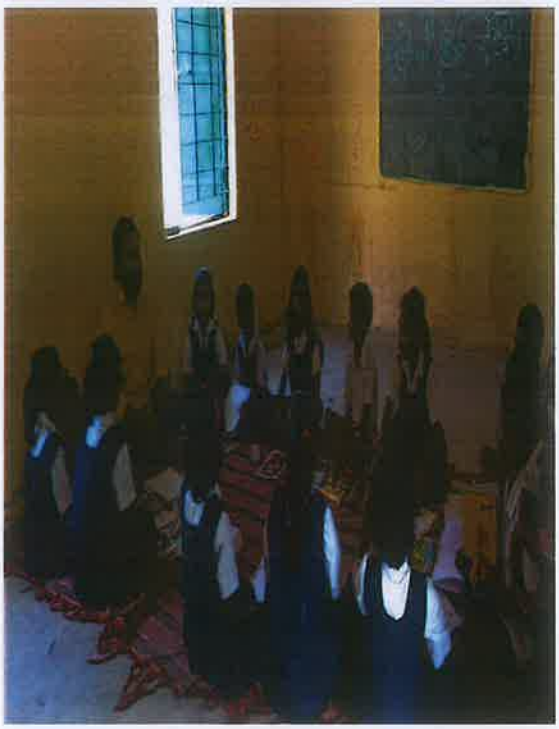
Education programme- ECCE, Hamara Gaon and Mannat Centre, Thelkoloi



Baseline Test, Dhubenchhapal



Flashcard-based Learning, Banjiberna





Learning Camp, Derba

Chapter VIII

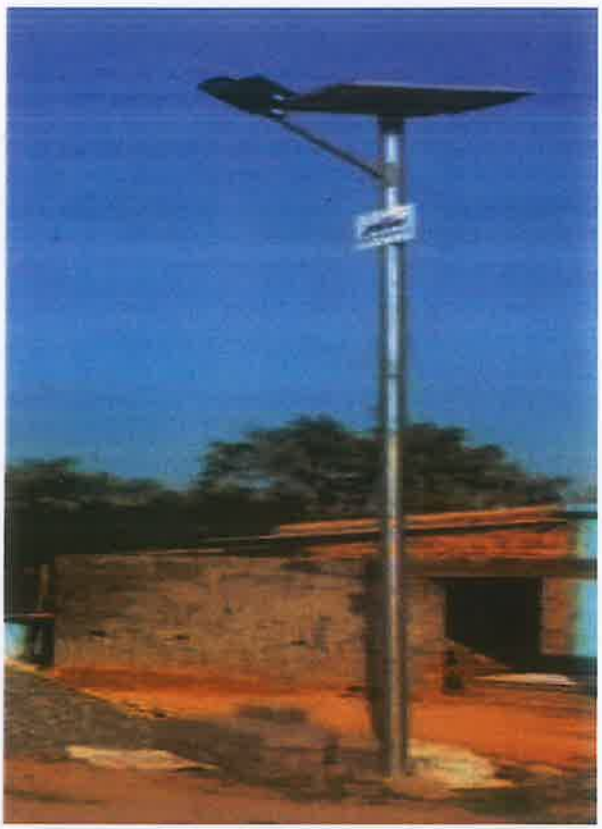
Electrification/ Solar Lighting & Misc

BPSL has supported the development of reliable energy infrastructure through the installation of electrification facilities, solar streetlights, and other community utility projects across neighbouring villages.

The initiatives include the provision of solar-powered lighting in public spaces, installation of streetlights along village roads, and electrification support for community institutions to improve safety, accessibility, and public convenience. In addition, various need-based community development activities have been undertaken under the miscellaneous category to address local priorities and enhance the overall quality of life.

These interventions have improved public safety, promoted the use of clean and renewable energy, strengthened essential community infrastructure, and contributed to the sustainable development of the surrounding areas.





Installation of Solar Streetlight, DIZ Villages (27 Nos.), Thelkoloi





Installation of Solar Streetlight (6 Nos)





Installation of Solar Streetlights (8 Nos), Banjiberna



Installation of Solar Borewell, Sripura



Installation of Solar Streetlight (18 Nos), Khadiapali



Installation of Solar Borewell, Sunamal



Installation of Bus Shelter, Dhubenchhapal

Chapter- IX

Expenditure incurred since acquisition FY'22 to FY'26

S. N	Proposed activity	Expenses FY'22 to FY'25 (in Cr)	Expenses during FY'26 (in Cr)
1	Road Infrastructure including Electrification/ Solar Street Lighting	1.576	3.11
2	Pond renovation & Rainwater harvesting & Water resources Management	1.088	0.72
3	Healthcare facilities	5.887	1.28
4	Drinking water & Sanitation	4.951	1.97
5	Vocational training arrangements for women and youth including skill development	3.1647	1.42
6	Education	7.1542	1.5
7	Electrification/ Solar Street Lighting	0.5015	0.11
8	Sports & Misc.	-	0.46
Grant Total		**24.323**	**10.46**

Chapter X

Publication Details

News Clippings

JSW BPSL lays foundation stone for Thelkoloi School building

STATESMAN NEWS SERVICE
BHUBANESWAR, 27 NOVEMBER

As a part of ongoing CSR activities, JSW BPSL laid the foundation stone for the construction work of Thelkoloi High School building.

Mr. Anil Kumar Singh-President & WTD, JSW BPSL along with Mrs. Neelam Singh, the First Lady and President of the Manitsha Ladies Club at JSW BPSL, Mrs. Abanti Nayak, Sarpanch of Thelkoloi, Mr. Jai Prakash Singh, Head-HR, Manoj Singh, Head-Security & Administration and Vishal Raj, Head-CSR and members from School Management Committee, villagers & other officials of the CSR were present.

The school faces demolition due to road extension, but rebuilding the school infrastructure with proper amenities, such as rainwater harvesting, will significantly enhance the learning experience, fostering student participation and academic growth, said a release issued by the company on Monday.

The Bhumi Pooja Programme, coinciding with Kartik Purnima and Bisha Sankranti marks a significant day for the School Management Committee, students, and villagers.

Dhubenchhapal Village Achieves Major Milestone in Health and Hygiene



BHUBANESWAR, (AutoBurrow): In a momentous triumph for community wellbeing, Dhubenchhapal Village proudly announces its accomplishment of becoming Open Defecation Free (ODF) and achieving a remarkable milestone in waste management with a 'No Open Waste' status under WaSH (Water, Sanitation and Hygiene) project - CSR initiative of JSW BPSL. This significant achievement is a testament to the dedicated efforts of the community members, local ambassadors, and supporting organization like JSW Foundation in fostering a healthier and cleaner environment. The event took place at Gramtarada. It Panchayats located in Dhubenchhapal village on 23rd & 27th February 2024 by Nigrani Committee and the Village Water & Sanitation Committee. The celebration was graced by eminent personalities including local government officials, representatives from JSW BPSL, and key members of the Nigrani and Village Water & Sanitation Committees. In the event, a huge amount of local residents is expected, showcase the unity and commitment of the community towards maintaining their ODF & NOW status. Cultural Programme was also performed by the school students. "We are thrilled to announce this momentous achievement for Dhubenchhapal Village. The journey towards Open Defecation Free and No Open Waste has been challenging, but the unwavering dedication of our community members has made it possible.

ବହୁମାଧିକୁ ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁର ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସ ହସ୍ତାନ୍ତର



ବହୁମାଧି, ୧୨ମ (ପ୍ରତିନିଧି): ବହୁମାଧିକୁ ଆଜି ଏକ ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ଉପହାର ପ୍ରଦାନ କରାଯାଇଛି। ଏହାକୁ ଆଜିଠାରୁ ଜିଲ୍ଲା ପ୍ରଶାସନ ନିମନ୍ତେ ଉତ୍ସର୍ଗ କରାଯିବ। ଜିଏସ୍‌ଡବ୍ଲ୍ୟୁ ଫାଉଣ୍ଡେସନ ପକ୍ଷରୁ ଏହି ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସ ନିର୍ମାଣ କରାଯାଇଛି। ଏହି ଉପଲକ୍ଷେ ଆୟୋଜିତ ଉତ୍ସବରେ ଜିଏସ୍‌ଡବ୍ଲ୍ୟୁ ଫାଉଣ୍ଡେସନ ପକ୍ଷରୁ ଏହି ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସ ଚାବି ବହୁମାଧି ପୌରାଞ୍ଚଳ ନିଗମ ପକ୍ଷରୁ ଆୟୁକ୍ତ ଶ୍ରୀ ଅଜିତ କୁମାର ପାଢୀଙ୍କୁ ହସ୍ତାନ୍ତର କରାଯାଇଛି। ଏହି ଅବସରରେ ଜିଏସ୍‌ଡବ୍ଲ୍ୟୁ ଫାଉଣ୍ଡେସନ ପକ୍ଷରୁ ମୁଖ୍ୟ କର୍ତ୍ତାବ୍ୟକ୍ତି ବିଶାଲ ରାଜ ଏହି ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସର ଗୁରୁତ୍ୱ ବୁଝାଇଥିଲେ। ଏହି ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସ ଜିଏସ୍‌ଡବ୍ଲ୍ୟୁ ଫାଉଣ୍ଡେସନ ପକ୍ଷରୁ ମୁଖ୍ୟ କର୍ତ୍ତାବ୍ୟକ୍ତି ବିଶାଲ ରାଜ ଏହି ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସର ଗୁରୁତ୍ୱ ବୁଝାଇଥିଲେ। ଏହି ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସ ଜିଏସ୍‌ଡବ୍ଲ୍ୟୁ ଫାଉଣ୍ଡେସନ ପକ୍ଷରୁ ମୁଖ୍ୟ କର୍ତ୍ତାବ୍ୟକ୍ତି ବିଶାଲ ରାଜ ଏହି ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସର ଗୁରୁତ୍ୱ ବୁଝାଇଥିଲେ। ଏହି ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସ ଜିଏସ୍‌ଡବ୍ଲ୍ୟୁ ଫାଉଣ୍ଡେସନ ପକ୍ଷରୁ ମୁଖ୍ୟ କର୍ତ୍ତାବ୍ୟକ୍ତି ବିଶାଲ ରାଜ ଏହି ମାର୍କେଟ୍ କମ୍ପ୍ଲେକ୍ସର ଗୁରୁତ୍ୱ ବୁଝାଇଥିଲେ।

JSWBPSL inaugurates new community centre



FOR NEWS NETWORK

Sambalpur, Sept 11: In a significant milestone for community development, the CSR department of JSWBPSL inaugurated Wednesday a newly-constructed community centre in Lapanga village, situated near Ramchandi temple in this district. This initiative underscores JSW Foundation's ongoing commitment to enhance the quality of life in peripheral areas through impactful CSR activities.

The inauguration ceremony was held in presence of Vishal Raj, Head CSR of JSW Foundation, Sambalpur and Jharsuguda. Other distinguished guests who were present during the function were Durga Prasad Sahu, Pradeep Sahu, Byasadev Sahu, Sanjiv Panda and other members of the village committee.

The newly-built community centre is designed to serve as a versatile venue for residents, offering a dedicated space for social and cultural activities. The centre aims to foster community engagement by providing an inclusive gathering spot where individuals and groups of all ages can meet and collaborate on various initiatives, a release said.

Raj highlighted the centre's role in nurturing a sense of belonging and social inclusion among community members. He emphasised that the new facility would act as a catalyst for collective endeavours and reaffirmed JSW Foundation's ongoing support for the development of the gram panchayat and the local community. CSR department of JSWBPSL remains dedicated to its mission of supporting and enhancing the well-being of the communities in which it operates, with a focus on sustainable and meaningful development initiatives, the release added.

ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁ ପୌର ନିକାଶକୁ ବର୍ଜ୍ୟବସ୍ତୁ ବଦଳରେ ଘାସ ହସ୍ତାନ୍ତର କଲା ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁ



ବାରଗଡ଼ (ବର୍ତ୍ତା): ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁ ପିଡିଏସ୍‌ଏସ୍ ପକ୍ଷରୁ ବାରଗଡ଼ର ପିଠା ନିକାଶକୁ ୭ଟି ବର୍ଜ୍ୟବସ୍ତୁ ବଦଳରେ ଘାସ ହସ୍ତାନ୍ତର କରାଯାଇଛି। ବାରଗଡ଼ରେ ସ୍ୱଚ୍ଛତାକୁ ନିଜର ଲକ୍ଷ୍ୟ ଭାବରେ ନେଇ ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁ ଏହି ଉଦ୍ୟମ କରିଛି। ଏହି ଉଦ୍ୟମରେ ବାରଗଡ଼ର ଜେଇଇ, ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁ ଠାରେ ଆୟୋଜିତ ବାର୍ତ୍ତାଳାପରେ ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁ ପିଡିଏସ୍‌ଏସ୍‌ର ଅଧିକାରୀ ଅଜିତ କୁମାର ପାଢୀ, ବିଭିନ୍ନ ବିଦ୍ୟାଳୟ ପରିଚାଳନା କମିଟିର ସଭାପତି ଓ ସଦସ୍ୟ ଉପସ୍ଥିତ ରହି ଏହାର ଗୁରୁତ୍ୱ ବୁଝାଇଥିଲେ। ଏହି ଅବସରରେ ଶ୍ରୀ ପାଢୀ କହିଥିଲେ ଯେ ବାରଗଡ଼ରେ ସ୍ୱଚ୍ଛତା ପାଇଁ ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁ ପିଡିଏସ୍‌ଏସ୍‌ର ଏହି ଉଦ୍ୟମ ଏକ ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ପଦକ୍ଷେପ ହୋଇଥିବା ବେଳେ ଏହା ଅନ୍ୟମାନଙ୍କୁ ମଧ୍ୟ ପ୍ରେରଣା ଯୋଗାଇବ। ଏହି ଅବସରରେ ଶ୍ରୀ ପାଢୀ ବାରଗଡ଼ରେ ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁ ପିଡିଏସ୍‌ଏସ୍‌ର ଏହି ଉଦ୍ୟମ ଏକ ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ପଦକ୍ଷେପ ହୋଇଥିବା ବେଳେ ଏହା ଅନ୍ୟମାନଙ୍କୁ ମଧ୍ୟ ପ୍ରେରଣା ଯୋଗାଇବ। ଏହି ଅବସରରେ ଶ୍ରୀ ପାଢୀ କହିଥିଲେ ଯେ ବାରଗଡ଼ରେ ସ୍ୱଚ୍ଛତା ପାଇଁ ଜେଏସ୍‌ଡବ୍ଲ୍ୟୁ ପିଡିଏସ୍‌ଏସ୍‌ର ଏହି ଉଦ୍ୟମ ଏକ ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ ପଦକ୍ଷେପ ହୋଇଥିବା ବେଳେ ଏହା ଅନ୍ୟମାନଙ୍କୁ ମଧ୍ୟ ପ୍ରେରଣା ଯୋଗାଇବ।

Chapter XI

Conclusion

Through targeted interventions in Education, Healthcare, Sanitation, Drinking Water, Livelihood Promotion, Women Empowerment, Environmental Conservation, Sports Development and Community Infrastructure, JSW JFE Steel Limited continues to contribute significantly towards the socio-economic development of approximately 50,000 people residing in its Direct and Indirect Impact Zones. These initiatives demonstrate the Company's commitment towards sustainable and inclusive community development.

Annexure-IX

Water and Wastewater Management

Water Supply and Treatment System

The Department of Water Resources, Government of Odisha, vide its letter No. Irr-II-WRC-11/15-1303 dtd.18.01.2016, has allocated 45 cusecs of water to Bhushan Power & Steel Limited (BPSL) for withdrawal from the backwaters of the Hirakud Reservoir. Subsequently, an agreement was made with the Executive Engineer, Main Dam Division, Burla, for allocation and supply of water. The agreement is valid up to 30.04.2027.

The distance between the water intake points and the BPSL plant site is approximately 11.2 KM. A calibrated water flow meter has been installed at the intake point to continuously monitor the quantity of water withdrawn. To ensure uninterrupted water availability, two raw water reservoirs with a combined storage capacity of 334,000 m^3 have been constructed within the plant premises.

The raw water is subjected to preliminary treatment in the Primary Water Treatment Plant, followed by secondary treatment, and is subsequently pumped to overhead storage tanks for distribution across various plant facilities. A dedicated Demineralization (DM) Plant is in operation to supply high-quality water to the Captive Power Plant (CPP) and other auxiliary applications. After necessary treatment and quality control, water is also supplied for potable and domestic use within the plant.

The Raw Water Treatment Plant (RWTP) consists of one treatment unit of 1,250 m^3/hr capacity and two treatment units of 3,000 m^3/hr capacity each, providing a total installed treatment capacity of 7,250 m^3/hr. Wastewater generated during the treatment process is further treated in the Wastewater Treatment Plant (WWTP), which is equipped with a filter press system for efficient recovery and reuse of water, thereby promoting sustainable water management practices.

DM Water treatment Plant:

The plant operates three (03) Demineralized (DM) Water Plants with a combined installed capacity of 382 m^3/hr to meet the requirement of high-purity water for various process applications. The demineralized water produced from these units is primarily utilized in the Captive Power Plant (CPP), Mill Areas, and Air Separation Unit (ASU) for process and utility purposes.

Wastewater generated during the regeneration of ion-exchange resins in the DM Plants is collected and routed to neutralization pits, where pH correction is carried out to ensure compliance with operational requirements. The neutralized effluent is subsequently treated in the Wastewater Treatment Plant (WWTP) and the treated water is reused within the plant for low-end applications, such as dust suppression, ash handling, gardening, and other non-critical applications.

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This system facilitates efficient water conservation, maximizes water reuse, and supports the plant's Zero Liquid Discharge (ZLD) approach by minimizing freshwater consumption and preventing discharge of untreated wastewater outside the plant premises.

Effluent Treatment Plant:

To ensure effective wastewater management and maximize water reuse, dedicated Effluent Treatment Plants (ETPs) have been installed at major process units. The plant operates a Cold Rolling Mill Effluent Treatment Plant (CRM-ETP) with a capacity of 50 m^3/hr and a dedicated Coke Oven-II ETP with a capacity of 75 m^3/hr.

Wastewater generated from the mill areas is treated through a comprehensive water treatment system comprising cooling towers, settling tanks, oil skimmers, high-rate filters, clarifiers, bucket elevators, and filter press units. The effluent from individual mill units is initially subjected to primary treatment and subsequently transferred to the CRM-ETP, which is equipped with primary, secondary, and tertiary treatment facilities, along with sludge dewatering systems. The treated water is recovered and reused within the plant, while the sludge generated from the treatment process is disposed of at an authorized Common Hazardous Waste Treatment, Storage and Disposal Facility (CHWTSDF) approved by the Odisha State Pollution Control Board.

At Coke Oven-II, a Reverse Osmosis (RO) Plant of 100 m^3/hr capacity has been installed for advanced treatment of the effluent generated from the Biological Effluent Treatment Plant (BETP). The treated permeate is reused within the process, thereby reducing freshwater demand.

The Cooling Tower blowdown generated from the Captive Power Plant (CPP) is routed to the Wastewater Treatment Plant (WWTP) for treatment. To further enhance water recovery, a Reverse Osmosis Plant of 510 m^3/hr capacity has been installed downstream of the WWTP. The RO-treated water is reused as Cooling Tower makeup water, while the RO reject is gainfully utilized for ash conditioning, ensuring optimum utilization of water resources and supporting the plant's Zero Liquid Discharge (ZLD) philosophy.

As part of the storm water and rainwater management system, concrete-lined roads, garland drains, and settling pits have been constructed throughout the plant premises. These facilities facilitate the collection and conveyance of surface runoff, promote the settling of suspended solids, and prevent contamination of storm water. The collected runoff, after sedimentation in the settling pits, is routed to the WWTP for further treatment and reuse, thereby minimizing water loss and enhancing overall water conservation within the plant.

The water treatment plant detail is given in the following table-1, and process flow diagrams are given below.

Table - 1

SN	Facility	Quantity	Capacity (m3/day)
1	Wastewater Treatment Plants (WWTPs) 750m3/hr each	3 Nos.	18,000
2	CRM Effluent Treatment Plant (ETP) 50 m3/hr	1 No.	1200
3	Biological Effluent Treatment Plant (BETP) 75 m3/hr	1 No.	1800
4	Reverse Osmosis (RO) Plant 510 m3/hr at RWTP and 100 m3/hr at Coke Oven -II.	1 No.	14640
5	Sewage Treatment Plants (STPs)	3 Nos.	2500

Sewage Treatment Plant:

The domestic waste generated form Office, canteen, hostel and housing colony is being treated in three different Sewage Treatment Plants (STPs) of capacity of 2,500 KLD, The treated wastewater is subsequently reused for Cooling Tower Makeup and various non-potable applications within the plant, thereby promoting water conservation and sustainable water management practices.

Additional water conservation and reuse initiatives

To strengthen ZLD implementation, the following measures have been adopted:

- Reduction of **cooling tower blowdown through increasing Cycles of Concentration (COC >5)**.
- Utilization of **STP treated water in cooling tower make-up**.
- Use of wastewater treated for **road cleaning, dust suppression, and horticulture**.
- Reuse of treated wastewater for **greenbelt irrigation and plantation maintenance**.
- Use of treated wastewater for **ash conditioning in ash silos**, reducing freshwater consumption.

Through these initiatives, **100% recycling and reuse of treated wastewater is being ensured within the plant premises.**

Rainwater Harvesting:

As part of the rainwater harvesting initiative, garland drains along with 12 nos. of settling pits have been constructed to capture surface runoff, facilitate sediment settlement, and promote water conservation. The collected rainwater is effectively reused within the plant operations.

A temporary pond of volume 90,000m3 is in place near to cement plant to collect rainwater (dimension 12840 sqm x 7 meters). However, a scientific Rainwater Harvesting Project is proposed in the expansion phase after finalization of expansion layout and necessary approval.

Further, approximately 5,000 m^3 of rainwater is harvested and stored in two water reservoirs developed over an area of 8.7 acres.

In addition, to above 419 acres have been converted into greenbelt and landscaping, which has also potential to ground water recharge during monsoon. (419 x4046x0.14 X0.4) Runoff Coefficient 0.6 as per CGWA guidelines.







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