

Plant Office: AT/PO: Kamalanga, PS: Kantabania, VIA: Meramundali, DIST: Dhenkanal - 759 121, Odisha CIN U40101KA2007PLC044809 T +91 6762 663564 W www.gmrgroup.in

Ref: GKEL/MOEF/2021-22/7292 Date: 25.05.2021

To **The Director Eastern Regional Office** Ministry of Environment, Forests & Climate Change, Govt. of India A/3, Chandrasekharpur, Bhubaneswar, Odisha - 751023

- Sub: Submission of 18th Half Yearly EC Compliance Status Report Expansion by additional of 1x350 MW, TPP (Phase-II) at Village Kamalanga, Dhenkanal District, Odisha.
- Ref: 1. Env. Clearance vides your letter No. J_13012/73/2011-IA. II(T) dated 5th Dec' 2011.
 2. Env. Clearance vides your letter No. J_13012/73/2011-IA. II(T) dated 11th Jan' 2019
 3. Env. Clearance vides your letter No. J_13012/73/2011-IA. II(T) dated 11th Apr' 2019

Dear Sir,

With reference to the subject referred above, we are pleased to submit the 19th Half Yearly EC Compliance Status Report of our 1 x 350 MW Thermal Power Plant (Phase-II) at village Kamalanga, Dhenkanal District, Odisha, for your kind perusal please.

Kindly acknowledge receipt of the same.

Thanking You,

Yours Sincerely, for GMR Kamalanga Energy Limited

Ramesh R Pai Chief Operating Officer

Encl. – As above

Copy for kind information to:

- 1) Director, MoEF&CC, GOI, New Delhi
- 2) Regional Director, CPCB Zonal Office, Kolkata
- 3) Member Secretary, SPCB Odisha, Bhubaneswar
- 4) Regional Officer, SPCB Odisha, Hakimpada, Angul

EC Compliance Report

Name of the project	:	GMR Kamalanga Energy Limited, Dhenkanal, Odisha
Clearance Letter No. and Date		J 13012/73/2011-IA. II(T) dtd. 05.12. 2011, 11.01.2019 & 11.04.2020 (Phase-II: 1x350MW)
Period of Compliance Report	:	October - 2020 to March - 2021

A. SPECIFIC CONDITIONS

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SI.	Conditions	Compliance Status		
1	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the "Ministry within six months.	Vision document Submitted		
2	Scheme for implementation for harnessing solar power within the premises of the plant particularly at available roof tops shall be formulated and status of implementation shall be submitted to the Regional Office of the Ministry from time to time	our township area and solar fencing		
3	In case source of fuel supply is to be changed at a later stage (now proposed to use imported coal from Indonesia) the project proponent shall intimate the Ministry well in advance along with necessary requisite documents for its concurrence for allowing the change. In such a case the necessity for re-conducting public hearing may be decided by the Ministry in consultation with the Expert Appraisal Committee.	Will be complied as applicable		
4	Provision for installation of FGD shall be provided for future use.	Space provided for FGD installation.		
5	Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted.	Complied. Rail transportation facility is developed.		
6	A detailed study on chemical composition particularly heavy metal and radioactive contents shall be carried out through a reputed institute and the report shall be submitted to Regional Office of the Ministry. Only after ascertaining its radioactive level shall fly ash be utilized for brick manufacturing or supplied to brick manufacturers.	Complied.		
7	The project proponent shall carry out a long term R&D on Boiler efficiency vis-a-vis large variation on ash content of coal and submit its findings to the Ministry at a later stage.	Will be complied		
8	A stack of 275m height with flue gas velocity not less than 22 m/s shall be installed and provided with continuous online monitoring equipment for SOx, NOx and PM2.5 & PM10. Mercury emissions from stack may also monitored on periodic basis.	Will be complied		
9	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³	The same has been included in the specification and will be complied.		
10	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	The same has been included in the specification and will be complied.		

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11	Utilisation of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time. Fly ash in the mine void should be used only after carrying the study regarding the impact on ground water and after permission of the DGMS. It should not be used for agriculture purpose.						
12	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash, as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	specification and will be complied.					
13							
14	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to the Ministry for suitable amendments to environmental clearance condition wherever necessary.						
15	Hydrogeology of the area shall be reviewed annually from an institute/ organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case any deterioration is observed specific mitigation measures shall be undertaken and reports/ data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	Will be complied.					
16	No ground water shall be extracted for use in operation of the power plant even in lean season.	Will be complied					
17	No water bodies (including natural drainage system) in the area shall be disturbed due to activities associated with the setting up of operation of the power plant.	Complied					
18	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ Rivers (as applicable) even in lean season.	Noted.					
19	Land and Water requirement shall be restricted as per latest CEA norms issued.	Will be complied.					
20	COC of 5.0 shall be adopted.	The same has been included in the specification and will be complied.					
21	Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality 'is not adversely affected due to the project.	Being Complied.					



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22	Monitoring surface water quality in the area shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	Copy the Surface Water quality report is enclosed as Annexure – I
23	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB.	Being Complied.
24	The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the Regional Office of the Ministry within six months.	
25	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Complied.
26	At least three nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health Centre, primary school etc. shall be developed in co-ordination with the district administration.	Complied
27	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Complied
28	CSR scheme shall be undertaken based on need based assessment in and around the villages within 5.0 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR employment of local youth after imparting relevant training as may be necessary shall be undertaken as committed.	Complied. A comprehensive scheme was developed as per the felt needs of the communities. Different activities were undertaken in the thrust areas of livelihoods, health and education in 09 villages. Detail is attached as Annexure-II
29	A special scheme for upliftment of SC & ST population in the study area shall be formulated and implemented in a time bound manner. The project proponent shall also identify the rights of Tribals under existing Laws and ensure its protection and implementation thereof.	Complied. Special counseling has been carried out to identify appropriate livelihood suited for the project affected families including SC and ST families. Through this counseling so far 1500 families have chosen their livelihood options. The activities undertaken were farming, mushroom cultivation, Goatary, sheep rearing, poultry, dairy, micro enterprise development activities. 1486 project affected families have received Livelihood support till March-21. Besides these activities vocational training was also provided to youth and women belonging to SC and ST community. One ST girl undertaken



		short term BPO course with our support and she is engaged in a Call Centre in Kolkata.		
30	An amount of Rs 5.0 Crores shall be earmarked as one-time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 1.0 Crores per annum till the life of the plant shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month along with road map for implementation.	 Being complied. Approx. expenditure till date is Rs. 41 Cores. GMRVF DAV Public School established. Hospital facility provided. 		
		 Renovation of School Building in Maniabeda O2 New class rooms constructed in Kamalanga High School. Boundary wall elevation work done in Panchayat High School Manpur 		
31	It shall be ensured that an in-built monitoring mechanism for the CSR schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time. The achievements should be put on company's website.	Community consultation is being held or quarterly basis in which sharing of progress is done. The feedback/suggestion of community is being incorporated in the planning and implementation process. Quarterly monitoring of livelihood support programs are carried by an external agency.		
32	Green Belt consisting of 3 tiers of plantations of native species around plant and 100m width shall be raised. The density of trees shall not be less than 2500 per ha with survival rate not less than 80 %.	 Complied Green belt with Indigenous species is being developed in phase wise. We have planted around 3,88,797 saplings till March-21 (including 7213 saplings in 2020-21) in around plant & township premises, avenue plantation along the Railway line & approach Road to cover land area of 357 Acres. Survival rate is around 90%. Under social voluntary project- Sabujima (A Green Initiative), 140 Nos. of fruit bearing trees were planted along with organic farming in the campus of Kamalanga Nodal High School, at Kamalanga Village. In addition to this, we have also developed avenue plantation and green belt in Dhenkanal district area as required by District Administration. 		
33	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the cell shall directly report to the Head of the Organization.	Environmental cell is in place.		

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B. GENERAL CONDITIONS

SI.	Conditions	Compliance status		
1	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	Being Complied		
2	Sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/ plantation.	Being Complied		
3	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location of plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.			
4	Storage facilities for auxiliary liquid fuel such as LDO /HFO/LSHS shall be made in the plant area in consultation with Dept. of Explosives, Nagpur. Sulphur content in the liquid fuel shall not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Complied.		
5	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Complied		
6	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy /less noisy areas.	Noise level will be maintained as per prescribed limit. Required PPE's will be provided to people working in noise prone areas.		
7	Regular monitoring of ambient air ground level concentration of S02, NOx, PM2.5 & PM10 and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Being Complied. AAQ is being monitored regularly by MoEF&CC accredited laboratory and records maintained. Copies of the reports are being submitted periodically.		
8	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical, health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Presently no labour camp available at site.		
9	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http:// envfor.nic.in.	Complied		
10	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad, Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the	Complied. The EC copy has been uploaded in the following Company URL: https://www.gmrgroup.in/kamalanga/		

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	proposal. The clearance letter shall also be put on the website of the Company by the proponent.	
11	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM _{2.5} & PM ₁₀), SO ₂ , NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	Being Complied Pl. see compliance status on Company URL: <u>https://www.gmrgroup.in/kamalanga/</u> Online monitoring data is being displayed at gate No – 2 & 3.
12	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e- mail.	Complied.
13	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.	Being complied as Specified Pl. see company website URL - <u>https://www.gmrgroup.in/kamalanga/</u>
14	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	Submitted, Vide our letter ref: GKEL/KTPP/BBSR/MOEF/ 2011-12/122 Dated 20 th September 2011.
15	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Complied
16	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Financial Closure not done yet.
17	Full cooperation shall be extended to the Scientists/Officers from the Ministry, Regional Office of the Ministry, CPCB/ SPCB who would be monitoring the compliance of environmental status.	Being complied as advised.

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SI.	Additional Conditions as per the MoEF&CC letter dated 11.01.2019	Compliance Status					
i	No forest land is involve in the incremental area of 120.07 Acres.	Compiled					
ii	Avenue Plantation shall be developed along the Railway line and Approach roads.	Avenue plantation is being develope					
III	Revised emission standard and water consumption as per the Ministry's notification dated 07.12.2015 and subsequent amendments notified from time to time.	Will be Complied					
iv	Treated water from the STP located within 50km distance from the project.	STP not available within 50 Kms radius of the plant.					
V	An environmental Officer be declared to look after the matter related to the implementation of various environmental control measures. In case any non- implementation of such environmental control measures, the environmental Officer shall be held responsible.	Environmental Officer declared and communicated to the Eastern Regiona Office of ministry vide letter no. 6630 dated 12.03.2019					
Vi							
Vii CER Activity will be carried out as per Ministry's OM No.22-65/2017- Complied, IA.II dated 01.05.2018 for implementation of Various CER/CSR activities delineated in the Ministry's OM dated 01.05.2018 within the project affected and surrounding areas. CER/CSR activities report has submitted to the Eastern Reformed and surrounding areas. Office ministry vide letter nu dated 12.04.2019. Detail reformed and surrounding areas. Office ministry vide letter nu dated 12.04.2019. Detail reformed and surrounding areas.							
Viii	The left out area of 31.19 acres shall be used for green belt development, as proposed, the periphery development area of 7.33 acres shall be used for creating infrastructure and other CSR activities for the benefit of communities surrounding the project.	Plantation is being done on Left out plot. Peripheral development will be done as specified.					
SI.	Additional Conditions as per the MoEF & CC letter dated 11.04.2019	Compliance Status					
i	Progress of construction activities and expenditure incurred shall be shall be submitted along with six monthly compliance report	Will be complied					
II	While commissioning the proposed unit, the compliance of revised emission norms issued vide Notification dated 07.12.2015 for the parameter PM: 30mg/Nm ³ , SO ₂ : 100mg/Nm ³ , NO _x : 100mg/Nm ³ , and Hg: 0.03mg/Nm ³ shall be adhered along with specific water consumption as per the notification dated 28.06.2018. the Flue Gas Desulphurisation System, NOx control measures such as SCR/SCNR/De-NOx burners shall be installed to achieve the revised emission norms.	Will be complied.					
Ш	As per the Revised Tariff Policy notified by Ministry of Power vide dated 28.01.2016, Project proponent shall explore the use of treated sewage water from the sewage treatment plant of Municipality/local bodies/similar organisation located within 50 km radius of the proposed power project to minimize the water drawl from surface water bodies. The detail of sewage treatment plants located within the 50km radius along with the capacities shall be submitted.	STP not available within 50 Kms radius of the plant.					

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Ramesh R. Pai Chief Operating Officer



Date: 25.05.2021



Note: CL: Colourless, Al: Agreeable, U/O: Unobjectionable, ND: Not Detected. BDL. (Below Detectable Limits) Values: Cu<0.025 mg/l, Mn<0.05 mg/l, CoH3OH<0.001 mg/l, Hg<0.001 mg/l, Cd<0.01 mg/l, Se<0.005 mg/l, As<0.01 mg/l, Pb<0.01 mg/l, 75, 0.05 mg/l, Max 0.05 mg/l, Al<0.01 mg/l, Al<0.01 mg/l, B<0.01 mg/l.





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Visiontek Consultancy Services Pvt. Ltd.

(Committed For Better Environment)

Certified for : ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Accredited by : NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade

Infrastructure Engineering
 Water Resource Management
 Environmental & Social Study

2.

• Surface & Sub-Surface Investigation • Quality Control & Project Management • Renewable Energy

tion • Agricultural Development gement • Information Technology • Public Health Engineering Mine Planning & Design
 Mineral/Sub-Soil Exploration
 Waste Management Services

Date: 31.03.2021

Laboratory Services Eavironment Lab Food Lab Material Lab Soll Lab Mineral Lab & Microbiology Lab

Ref: Envlab/20/R-9657

SURFACE WATER ANALYSIS REPORT (BUFFER ZONE)

- 1. Name of the Industry : M/s GMR Kamalanga Energy Ltd, Dhenkanal
 - Sampling Location: SW1: Brahmani River Upstream
SW3: Pond at Maniabeda VillageSW2: Brahmani River Downstream
- Date of Sampling
 Date of Analysis
- : 24.03.2021 : 25.03.2021 to 30.03.2021
- 4. Sample Collected By : VCSPL Representative in presence of Client's Representative

SI.	Parameter	Unit	Testing Methods	Standard as per IS 2296:1992	Analysis Results			
No		Citt		Part C	SW-1	SW-2	SW-3	
1.	Colour	Hazen	APHA 2120 B	300.0	<5	<5	<5	
2.	Odour		APHA 2150B		Agreeable	Agreeable	Agreeable	
3.	pH	222	APHA 4500H ⁺ B	6.0-9.0	6.87	7.13	7.18	
4.	Suspended Solids	NTU	APHA 2540 D		53.0	62.0	51.0	
5.	Total Dissolved Solids		APHA 2540 C	1500.0	246.0	285.0	254.0	
6.	Electrical Conductivity	mg/l	APHA 2510 B		398.3	461.4	411.7	
7.	Temperature	mg/l	APHA 2550 B		25.3	25.7	25.0	
8.	Biochemical Oxygen Demand as BOD (3 days) at 27°C	mg/l	APHA 5210 B	3.0	2,0	2.4	2.2	
9.	Chemical Oxygen Demand as COD	mg/l	АРНА 5220 С		16.0	24.0	20.0	
10.	Dissolved Oxygen	mg/l	APHA 4500 O'C	4.0 (minimum)	5.3	4.8	5.4	
11.	Oil & Grease	mg/l	APHA 5520 B		ND	ND	ND	
12.	Arsenic (as As)	mg/l	APHA 3114 B	0.2	BDL	BDL	BDL	
13.	Hexavalent Chromium (as Cr ⁺⁶)	mg/l	APHA 3500 Cr B	0.05	BDL	BDL	BDL	
14.	Total Chromium (as Cr)	mg/l	APHA 3111 B		BDL	BDL	BDL	
15.	Copper (as Cu)	mg/l	APHA 3111 B,C	1.5	BDL	BDL	BDL	
16.	Manganese (as Mn)	mg/l	APHA 3500 Mn B		BDL	BDL	BDL	
17.	Lead (as Pb)	mg/l	APHA 3111 B,C	0.1	BDL	BDL	BDL	
18.	Zinc (as Zn)	mg/l	APHA 3111 B,C	15	0.29	0.34	0,31	
19.	Selenium (as Se)	mg/l	APHA 3114 B	0.05	BDL	BDL	BDL	
20.	Iron (as Fe)	mg/l	APHA 3500Fe B	0.5	0.19	0.33	0.29	
21.	Total Coli form	mg/l	АРНА 9221 В	5000	170	280	240	
22.	Chloride (as Cl)	mg/l	APHA 4500Cl ⁻ B	600	21.5	33.5	30.0	
23.	Sodium Absorption Ratio	mg/l	By Calculation		0.45	0.48	0.42	
24.	Boron (as B)	mg/l	APHA 4500 B,B		1.3	2.5	1.9	
25.	Sulphate (as SO ₄)	mg/l	APHA 4500 SO42	400	12.3	15.4	13.7	
26.	Nitrates (as NO ₃)	mg/l	APHA 4500 NO3 E	50	0.73	1.16	0.82	
27.	Free Ammonia	mg/l	By Calculation		ND	ND	ND	
28.	Fluorides (as F)	mg/l	APHA 4500 F,C	1.5	0.37	0.46	0.40	
29.	Sodium (as Na)	mg/l	APHA 3500 Na B		9.5	12.6	10.2	
30.	Calcium (as Ca)	mg/l	APHA 3500Ca B		18.4	27.2	23.4	
31.	Magnesium (as Mg)	mg/l	APHA 3500Mg B		9.2	15.6	12.5	
32.	Ammonical Nitrogen	mg/l	APHA 4500 NH ₄ F		1.56	2.2	1.80	

Note: CL: Colourless, Al: Agreeable, U/O: Unobjectionable, ND: Not Detected. BDL (Below Detectable Limits) Values: Cu<0.025 mg/l, Mn<0.05 mg/l, C₆H₃OH<0.001 mg/l, Hg<0.001 mg/l, Cd<0.01 mg/l, Se<0.005 mg/l, As<0.01 mg/l, Pb<0.01 mg/l, Zn<0.01 mg/l, Cr^{*} Defense, H<0.01 mg/l, B<0.01 mg/l.





CSR SCHEME IMPLEMENTATION DETAILS

A comprehensive scheme was developed as per the felt needs of the communities. Different activities were undertaken in the thrust areas of Education & Trainings, Health & Sanitation, livelihoods and Infrastructure Development in 9 villages. During FY 20-21 due to COVID-19 pandemic Health awareness, distribution of safety kits, distribution of materials for COVID -19 response carried out in the periphery villages. COVID-19 pandemic started in Odisha since 15th March, 20 and so all the activities were concentrated on COVID response, on line education of students, health awareness and health treatment support and livelihood development. Detail are as follow: -

A. EDUCATION & TRAININGS: -

- A total of 124 local youths and around 100 ladies have been trained in different trades.
- School Fee Concession in GMRVF DAV Public School for the children of land looser families started from the session 2015-16. There are 83 children availed this facility during 2015-16, 115 children during 2017-18, 165 children in the year 2018-19 and 171 children in the year 2019-20. In 2020-21 school fees concession application has been received from more than 150 students belong to project affected families.
- 10 Govt. Schools and 16 Anganwadi centers in the periphery village have been supported for education development.
- 21 girls and 01 boy received scholarship every month for promoting education.
- Provided 10 support teachers (Vidya Volunteers) to 8 Government Primary schools
- Provided furniture, utensils and play materials to Anganwadi centers in all the project villages
- Organized 02 training programs for Vidya volunteers and 2 trainings for Anganwadi workers every year
- 130 students of Std.-X benefited from 03 tuition centers in 2019-20. Due to COVID-19 pandemic this year on line tuitions are going on benefitting 70 students.
- 28 students benefitted from coaching class for Navodaya entrance exam in 2019-20
- Running 3 Kid Smart Early Learning Centers in 3 Government Primary Schools. Due to COVID-19 pandemic these centres are closed.
- Provided test papers to 72 students of Std. X from 2 High schools and exam kits to 147 students in 2 high schools in 2019-20. This year 141 students received HSC Test papers at their door step.
- Notebooks and pens provided to 1500 students of all 10 supported schools in 2019-20
- Two class rooms constructed in Kamalanga high school in 2019-20
- 88 dual desk provided to 4 schools in 2019-20
- Four water cooler-cum-purifier provided to four schools in 2019-20
- Wall paintings done in two Anganwadi centers in 2019-20
- Two exposure visits organized for students of two high schools in 2019-20
- 45 students from two high schools received Scout dress in 2019-20
- Cash awards were given to 14 meritorious students from Kamalanga and Manpur High School who have secured more than 70% marks in High School Board examination in 2019-20. This year in 2020-21 cash awards given to 6 students who have secured more than 60% in HSC examination.
- Awareness on hand washing organized and washing materials provided to 10 schools in 2019-20
- Three batches of girls (45 girls) completed basic computer learning course in 2019-20. This year this is closed due to COVID-19 pandemic.

FY 2020-21

- > 400 masks provided to children of all 16 Anganwadi centres and 300 to children of 02 High schools
- Engaged 10 support teachers (Vidya Volunteers) to organize on line and off line Tuition for primary class students of 8 Government Primary schools

- Engaged 03 support teachers for on-line classes for class 9th and 10th students benefitting 70 students of Std. IX and Xth
- > 16th Students benefitted from coaching class for Navodaya entrance exam.
- Provided test papers to 141 students of Std. X from 02 High schools
- Construction of two class rooms in Kamalanga High School completed.
- Wall paintings done in one primary school
- Smart phone with recharging distributed to 119 students to enable them to access on line classes.
- O6 students including 03 girls who scored > 60% marks in High School class Xth Board Exam selected to receive cash award.
- Provided Scholarship to 18 girls and one boy for better education.
- Awareness on sanitization, wearing mask and hand wash explained to class 9th and 10th students in 2 high schools and materials provided to students. Sanitization done in 02 schools before re-opening of schools.
- One batches of girls (08 girls) continuing basic computer learning course.

B. HEALTH & SANITATION

- Medical Support/Insurance to the Project Affect People (PAP): The insurance for the land loser family covering 2256 families started since March -2016 and the same is renewed for 2019-20 covering 2359 families. About 100 people got reimbursement of health insurance and 50 people got cashless services in various hospitals. In 2020-21 insurance provisioning stopped and provided health treatment support to 28 project affected families.
- A Mobile Medical Unit provides health care services to poor and needy families at their doorstep. In 2016-17, it has provided service to 6545 patients in the project affected villages and in 2017-18 year, 6741 patients received health service. In 2018-19 period 3845 cases treated through MMU. In the year 2019-20 FY 6800 patients were treated. In 2020-21 this is not started due to COVID-19 pandemic.
- > 03 Nutrition centers run by GMRVF benefited 40 pregnant and lactating mothers in 2019-20. In 2020-21,
 43 pregnant and lactating mothers receive nutritious food daily at their door step
- Kitchen garden support provided to nutrition center pregnant & lactating mothers
- > 03 Adolescent Mela organized and 105 girls received sanitary napkins in 2019-20
- Health check up programs organized in Anganwadi centres and medicines provided to the needy children in 2019-20
- Organized six Healthy Baby shows benefiting 150 children and 145 mothers in 2019-20
- Organized specialized eye and dental health check-up camps in 2019-20
- Provided hearing aids to 3 people and tri-cycle to one person from land loser families in 2019-20
- > Two number of voluntary health camp organized and 302 units of blood donated by employees in 2019-20

Due to COVID-19 pandemic health programs in the villages are not done to avoid spread of infection. However, awareness programs organised in the villages, 5000 mask, 500 soap, 200 sanitizers, 458 liquid soap distributed to community. Safety kits provided to village level workers like Anganwadi workers, ASA workers, ANM etc.

C. SPECIAL LIVELIHOOD RESTORATION PROGRAM (LRP):-

A Special Livelihood Restoration program has been implemented since 2016-17. This shall cover about 1500 project affected families in 3 years. In the first year it has benefitted 285 families in Farm & livestock, skill training and enterprise development. In 2017-18 year 538 families and in 2018-19 period 268 project affected families received support for livelihood development. In the FY 2019-20, there are 104 families received support under the livelihood development. Total 1337 project affected families received livelihood support till FY 2019-20. In this year till date 46 people received livelihood support.

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The cumulative status of Livelihood Restoration Program is as follows:

Year		Target(ben	eficiary no)		Achievement(beneficiary no)				
	Farm & Livestock	Skill training	Enterprise Develop -ment	Total	Farm & Livestock	Skill training	Enterprise develop -ment	Food ration Support to Old people	Total
2016-17(1 st)	100	10	150	260	118	10	151	-	279
2017-18(2 nd)	325	1	329	655	206	0	332	-	538
2018-19(3 rd)	175	0	375	550	84	0	189	-	273
2019-20(4 th)	20	0	80	100	23	0	224	-	247
2020-21(5 th yr)	20	0	80	100	6	0	96	50	152
Total	620	11	934	1565	437	10	936	50	1383

During the FY 19-20 the following supports provided to Project affected persons under LRP

- 23 project affected families received support for farming and livestock activities. Besides this, 50 farmers received bio fertilizer, 40 soil samples tested.
- 188 project affected families received support for developing various micro-enterprises (88 for enterprise development + 100 got cross breed Jersey Cow). Besides these, 36 got 2nd phase support for Enterprise development.
- Organized trainings for farmers, training, exposure, workshop for livestock farmers including cow and other entrepreneurs.

During FY 2020-21 the following livelihood supports provided to PAPs under LRP as follows:

- > 19 PAP covering 06 new farmers and 13 old farmers received paddy seed, fertilizer and labour cost.
- > 77 PAP (1st & 2nd phase) received support for Enterprise development
- 19 PAP people received cow support.
- > 3 people who have received cow support last year received support for doing fodder cultivation
- > 50 old and poor people received food ration every month. Sari, Dhoti, towel provided to these 50 people.

D. INFRASTRUCTURE DEVELOPMENT: -

- Approx. expenditure till date is Rs. 40.0 Crores.
- Company has established DAV Public School
- A 27 bedded Hospital for the communities.
- Pipe water supply started to 5 villages in collaboration with RWSS department of Govt. of Odisha.
- Construction of Water treatment plant for Kamalanga Village.
- D2 Nos. of Community Centers has been constructed in the village of Manpur and Kamalanga.
- > 01 Compound wall constructed in Govt. High School, Kamalanga.
- School Building Renovation in the Maniabeda village.
- Construction of 02 new class room buildings in Kamalanga High School.

During FY 2020-21 the following infrastructures work done: -

- Potable water treatment plant (PT Plant 15000LPH) Installed at Kamalanga village near plant Intake well site under Community Water Supply Scheme catering to the requirement of Kamalanga, Durgapur and Bhagamunda. Treated water from the PT plant is fed to the over ground reservoir for further distribution to the user end.
- School boundary elevation work of Mangalpur Panchayat High School is in progress.
- Anganwadi Centre at Kamalanga -1A work is in progress.