

IREP-Pinnapuram/MoEF&CC-SMR/14122023

Date: 14.12.2023

To
The Inspector General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Vijayawada Green House Complex,
Gopala Reddy Road, Vijayawada,
Andhra Pradesh – 520010,

Sub: Pinnapuram Integrated RESP-Storage Project (1200 MW) in Tehsil Nandyal, District Kurnool (Andhra Pradesh) implemented by M/s Greenko AP01 IREP Pvt. Ltd - Submission of Half Yearly Compliance Report for the period April 2023 – September 2023 -reg

Ref: Environmental clearance vide MOEF&CC Letter No. J-12011/12/2018- IA.I.(R) Dated: 14-06-2020 and its Amendment Letter No: J-12011/12/2018- IA.I.(R) Dated: 13-02-2023.

Dear Sir,

With reference to the above cited letter, our consultant Mr. Vison Labs, Hyderabad was prepared & certified our Six-Monthly Compliance Report.

Here with we are submitting "Six Monthly Compliance Report" of Pinnapuram Integrated RESP-Storage Project (1200MW) for the period of **April 2023 – September 2023**.

Thanking You

Yours Sincerely

For Greenko AP01 IREP Private Limited.

Authorized Signatory



- CC: 1) Director, EIA Division (River Valley & Hydro Electric Projects) Ministry of Environment, Forest & Climate Change Govt. of India, New Delhi-110003.
- 2) Deputy Director General of Forests (C), MoEF&CC, Integrated Regional Office 1st and 2nd Floor, Cathedral Garden Road, Nungambakkam Chennai – 34
- 3) Member Secretary, A.P. Pollution Control Board, Vijayawada, Andhra Pradesh.

IREP-Pinnapuram/MoEF&CC-SMR/14122023

Date: 14.12.2023

To
The Member Secretary,
A.P. Pollution Control Board,
Vijayawada,
Andhra Pradesh.

Sub: Pinnapuram Integrated RESP-Storage Project (1200 MW) in Tehsil Nandyal, District Kurnool (Andhra Pradesh) implemented by M/s Greenko AP01 IREP Pvt. Ltd - Submission of Half Yearly Compliance Report for the period April 2023 – September 2023 -reg

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VISON LABS

Environmental Consultants & Analytical Services

Accredited by NABL vide certificate number TC-5064
MoEF & CC, NABET-QCI, ISO 9001 : 2015 & OHSAS 45001 : 2018

Date: 13.12.2023

To
The Inspector General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Vijayawada Green House Complex,
Gopala Reddy Road, Vijayawada,
Andhra Pradesh- 520010,

Sub: Submission of six-monthly compliance report on condition stipulated in Environment clearance order issued for Pinnapuram Integrated RESP-Storage Project (1200 MW) in Tehsil Nandyal, District Kurnool(Andhra Pradesh) implemented by M/s Greenko AP01 IREP Pvt. -reg

Ref: Environmental clearance vide MOEF&CC Letter No. J-12011/12/2018- IA.I.(R) Dated: 14-06-2020 and its Amendment Letter No: J-12011/12/2018- IA.I.(R) Dated: 13-02-2023.

Dear Sir,

With reference to the above, we would like to bring your kind notice that we have prepared and verified the six-monthly compliance report on condition stipulated in Environment clearance order issued for Pinnapuram integrated RESP Storage project(1200 MW) by Greenko APO1 IREP Private Limited at Pinnapuram village, Panyam Mandal, Nandyal Tehsil, Kurnool District, Andhra Pradesh, for the period of **April 2023 – September 2023.**

This is for your kind reference.

Thanking You,
Yours faithfully,

For **Vision Labs Limited.**

Authorized Signatory



Encl: As above

- CC:**
- 1) Director, EIA Division (River Valley & Hydro Electric Projects) Ministry of Environment, Forest & Climate Change Govt. of India, New Delhi-110003.**
 - 2) Deputy Director General of Forests (C), MoEF&CC, Integrated Regional Office 1st and 2nd Floor, Cathedral Garden Road, Nungambakkam Chennai – 34**
 - 3) Member Secretary, A.P. Pollution Control Board, Vijayawada, Andhra Pradesh.**



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Accredited by NABL vide certificate number TC-5064
MoEF & CC, NABET-QCI, ISO 9001 : 2015 & OHSAS 45001 : 2018

Date: 13.12.2023

To
The Member Secretary,
A.P. Pollution Control Board,
Vijayawada,
Andhra Pradesh.

Sub: Submission of six-monthly compliance report on condition stipulated in Environment clearance order issued for Pinnapuram Integrated RESP-Storage Project (1200 MW) in Tehsil Nandyal, District Kurnool(Andhra Pradesh) implemented by M/s Greenko AP01 IREP Pvt. -reg

Ref: Environmental clearance vide MOEF&CC Letter No. J-12011/12/2018- IA.I.(R) Dated: 14-06-2020 and its Amendment Letter No: J-12011/12/2018- IA.I.(R) Dated: 13-02-2023.

Dear Sir,

With reference to the above, we would like to bring your kind notice that we have prepared and verified the six-monthly compliance report on condition stipulated in Environment clearance order issued for Pinnapuram integrated RESP Storage project (1200 MW) by Greenko AP01 IREP Private Limited at Pinnapuram village, Panyam Mandal, Nandyal Tehsil, Kurnool District, Andhra Pradesh, for the period of **April 2023– September 2023**.

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Thanking You,
Yours faithfully,
For Vision Labs Limited.

Authorized Signatory



Encl: As above

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- 1) Director, EIA Division (River Valley & Hydro Electric Projects) Ministry of Environment, Forest & Climate Change Govt. of India, New Delhi-110003.**
 - 2) The Inspector General of Forests (C), MOEF&CC, Integrated Regional Office, Vijayawada Green House Complex, Gopala Reddy Road, Vijayawada, Andhra Pradesh – 520010,**
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**HALF YEARLY COMPLIANCE TO THE CONDITIONS
STIPULATED IN ENVIRONMENTAL CLEARANCE ISSUED
BY MOEF&CC**

**VIDE ORDER NO. J-12011/12/2018-IA-I (R)
Dated: 14th July, 2020 & TRANSFER OF ENVIRONMENTAL
CLEARANCE (AMENDMENT) Dated: 13th February, 2023.**

Period: Apr 2023 to Sep 2023

By

**GREENKO AP01 IREP PRIVATE LIMITED
(STANDALONE PUMPED STORAGE COMPONENT
(1200 MW) OF PINNAPURAM INTEGRATED
RENEWABLE ENERGY
PROJECT)**

***Pinnapuram village, Nandyal Tehsil,
Kurnool District, Andhra Pradesh***

1. INTRODUCTION

Pinnapuram IREP has been conceived as integrated project with solar, wind and pumped storage components. GoAP has approved the project with 1000 MW Solar, 550 MW Wind & 1200 MW of Standalone Pumped Storage capacities to be developed in Phase I. All three components of Pinnapuram IREP are in close vicinity of each other and therefore power from all three components will be pooled into common pooling station and will be connected to PGCIL/CTU sub-station at Orvakallu for further supply into the National Grid. Proposed Standalone Pumped Storage Project (1200MW) is a part of Pinnapuram Integrated Renewable Energy Project (IREP). Environmental Clearance has been obtained for Standalone Pumped Storage component vide order no. J-12011/12/2018-IA.I. (R) Dated: 14-06-2020 and its amendment Transfer of EC with dated: 13-02-2023. Proposed project is located near Pinnapuram village in Panyam Mandal, Kurnool District, and Andhra Pradesh.

2. DETAILS OF THE PROJECT

The Standalone Pumped Storage Component of Pinnapuram IREP envisages construction of upper and lower reservoir near Pinnapuram village in Panyam Mandal of Kurnool District.

The existing Gorakallu balancing reservoir is under operation with a live storage capacity of 12.44 TMC. The filling of the proposed Pinnapuram Lower reservoir will be taken up from Gorakallu Reservoir.

Proposed Scheme will involve construction of Rock fill embankments of average height of around 12 m to 14 m with maximum of 33 m height in lower reservoir and 35m in upper reservoir for very short reach for creation of Pinnapuram IREP reservoirs. Intake structure and trash rack for Five numbers of independent penstocks and one number of independent Penstock bifurcated into two will be taking off from Power block of Pinnapuram IREP upper reservoir. A surface Powerhouse will be located on the downstream of the power block and shall be equipped with five vertical-axis reversible Francis type units composed each of a generator/motor and a pump/turbine having generating / pumping capacity of 200MW / 244MW and two units of 100MW / 130MW respectively.

3. STATUS OF IMPLEMENTATION OF PROJECT

The company has obtained all statutory permissions for initiating the construction works. Hydromechanical works are in progress, and major civil works are about to be completed.

4. COMPLIANCE TO THE CONDITIONS OF ENVIRONMENTAL CLEARANCE

S. No.	EC Conditions	Status of Compliance
	Part-A: Annexure-I (Standard EC Conditions for River Valley and Hydroelectric projects)	
(i)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	We have obtained In-Principle Final approval/Stage – II Clearance. (Out of total area of 365.66 ha, i.e., a part approval area of only 46.64 ha of the total forest area and remaining 319.06 ha have been granted) with MOEF&CC letter File No.8-32/2019-FC Dated: 24.05.21 & File No.8-32/2019-FC Dated: 24.05.2022 respectively. (A Copy of the same is enclosed as Annexure-1.)
(ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable	Not Applicable as there are no wildlife sanctuaries within 10 Km radius.
(iii)	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The Implementation report shall be furnished along with the six-monthly compliance report, (in case of the presence of Schedule-I Species in the study area).	Approval of Biodiversity and Wildlife Conservation & Management Plan for Schedule-I species Orders Issued vide: Rc.no. 8531/2021/WL-2 dated 23-02-22 (File No. EFS02-21024/36/2021-WILD LIFE SEC-PCCF). (Copy of the same is enclosed as Annexure-2.)
(iv)	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of	Consent to Establish has been obtained from State Pollution Control Board vide Order letter dated:

S. No.	EC Conditions	Status of Compliance
	Pollution) Act, 1981 and the water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.	07.10.2020 & Its Transfer Amendment Order dated: 07.07.2023 (Copy of the same is enclosed as Annexure-3)
(v)	NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDP) of CWC.	Site Specific design Earthquake Parameter report for Pinnapuram PSP was prepared by NGRI Hyderabad and was approved by NCSDP of CWC vide letter dated 16.10.2021. (Copy of the same is enclosed as Annexure-4)
(vi)	Necessary approval of CEA shall be obtained for those projects having the project cost more than Rs.1000 crores.	Detailed Project Report has been submitted to Central Electricity Authority (CEA), Government of India for issuance of concurrence and is at advanced stage of approval. For start of excavation activities, CEA has accorded permission vide letter dated 27.05.2020. (Copy of the same is enclosed as Annexure-5.)
II. Air quality monitoring and preservation		
i.	Regular monitoring of various environmental parameters viz., Water Quality, Ambient Air Quality and Noise levels as per the CPCB guidelines at designated locations shall be carried out on monthly basis and a detailed database of the same shall be prepared and recorded. This shall be used as a baseline data for post construction EIA / Monitoring purposes.	As the project is Standalone PSP and as mentioned in EIA to conduct Seasonal Monitoring of Air quality, Water quality and noise levels is being carried out as per stipulation and copies of the same will be submitted from time to time. (Copy of the same is enclosed as Annexure-9.)
ii.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed standards.	Air pollution control measures like dust suppression, providing all dust control equipment's for batching plants will be followed.
iii.	Necessary control measures such as water sprinkling arrangements, etc. be taken up	Necessary control measures like water sprinkling arrangements will be taken

S. No.	EC Conditions	Status of Compliance
	to arrest fugitive dust at all the construction sites.	up to mitigate fugitive dust at all the construction sites
III. Water quality monitoring and preservation		
i.	As the reservoir will be acting as balancing reservoir and there would be fluctuation of water level during peaking period, efforts be made to reduce impact on aquatic life including impacts during spawning period both at the upstream and downstream of the project.	Not Applicable, as the project is an Standalone Pumped Storage Project and not a run-off river project.
ii.	Water depth sensors shall be installed at suitable locations to monitor e-flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharge data in the form of Excel sheet be submitted to the regional office, MoEF & CC and to the CWC on weekly basis.	Not Applicable, as the project is an Standalone Pumped Storage Project and not a run-off river project.
IV. Noise monitoring and prevention		
i	All the equipment likely to generate high noise shall be appropriately enclosed or inbuilt noise enclosures be provided so as to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.	Being Complied.
ii	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dB(A) during daytime and 70dB(A) during nighttime.	Being Complied.
V. Waste management		
i	Muck disposal be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of at the designated disposal sites. Once the muck disposal sites are	Muck is being disposed to the sites earmarked. The muck is being reused in the Embankment construction and other filling purposes.

S. No.	EC Conditions	Status of Compliance
	inactive, proper treatment measures like both engineering and biological measures be carried out so that sites are stabilized quickly.	
ii	Solid waste management should be planned in detail. Land filling of plastic waste shall be avoided and instead be used for various purposes as envisaged in the EIA/EMP reports. Efforts be made to avoid one time use of plastics.	As stipulated land filling of plastic waste will be avoided.
VI. Green Belt and wildlife Management		
i	Wildlife Conservation Plan approved by the Chief Wildlife Warden shall be implemented in consultation with the local State Forest Department.	We hereby assure that we will implement the Wildlife Conservation Plan approved by the Chief Wildlife Warden. Orders Issued vide: Rc.no. 8531/2021/WL-2 dated 23-02-22(File No. EFS02-21024/36/2021-WILD LIFE SEC-PCCF). (Copy of the same is enclosed as Annexure-2.)
ii	To enrich the habitat of the project site, plantation shall be raised as envisaged in the EIA/EMP report. Plantation to be developed along the periphery of the reservoir in multi-layers with local indigenous species in consultation with the local State Forest Department.	We are in the process of developing plantation as stipulated.
iii	Compensatory afforestation programme shall be implemented as per the plan approved.	Implementation of the afforestation programme shall be undertaken by the State Forest Department.
VII. Public hearing and Human health issues		
i	Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt, if any.	Total private land of 120 ha (297 acres) is being purchased through private negotiations and it is well within the prescribed limits of 5000 acres as notified by the Govt. of Andhra Pradesh and further, in the land procured, there is no habitation present. Hence the provisions of R & R

S. No.	EC Conditions	Status of Compliance
		do not apply.
ii	Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in toto.	Being Complied. As per CER (Corporate Environment Responsible) Plan, the improvement of basic amenities in the project affected villages were already initiated. Status report on the activities completed and activities in-progress is enclosed as Annexure-6.
iii	Preventive measures viz. fuming and spraying of mosquito control shall be done in and around the labour colonies, affected villages, stagnated pools, etc. Provisions be made to not to create any stagnated pools to avoid creation of breeding grounds of the vector borne diseases.	As stipulated, we will implement preventive measures stipulated for mosquito control.
iv	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	As per the stipulation, provision has been made for housing of labour and necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc are being provided.
v	Labour force to be engaged for construction works shall be examined thoroughly and adequately treated before issuing them work permit. Medical facilities shall be provided at the construction sites.	Pre-Medical examination will be done before deputing them for construction works
vi	Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood forecast.	Not Applicable, since the project is an Off-Stream Pumped Storage Project and not a run-off river project.
vii	Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Disaster	Emergency preparedness response plan prepared and approved by the management attached as enclosed

S. No.	EC Conditions	Status of Compliance
	Management Plan	copy Annexure-10.
VIII. Corporate Environment Responsibility		
i	The Project Proponent shall comply with the provisions contained in this Ministry's OM Vide F.No. 22-06/2017-1 A. III dated 01.05.2018, as applicable regarding Corporate Environmental Responsibility.	We hereby assure that we will undertake activities as per CER
ii	Skill mapping be undertaken for the youths of the affected project area and based on the skill mapping, necessary trainings to the youths be provided for their longtime livelihood generation	Skill Development training for the local youth was already initiated through the Skill Development Center at Gani. So far 120 local youth from affected villages were provided with ITI & Other Training. Further, detailed need assessment and demand survey for skill mapping is underway.
iii	The Company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Noted.
iv	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	Implemented.
v	Action plan for implementing EMP and environmental conditions along with	As stipulated, we have earmarked funds for environmental protection

S. No.	EC Conditions	Status of Compliance
	responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	measures. Till now we have spent around Rs. 73,19,52,800 /- (Seventy-three crore's nineteen lakhs fifty-two thousand eight hundred rupees only).
vi	Post EIA and SIA be prepared for the project through a third party and evaluation report be submitted to the Ministry after five years of commissioning of the project.	As stipulated, we will prepare Post EIA and SIA through Third party after five years of commissioning of the project.
vii	Multi-Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil Conservation, Fisheries, NGO, etc. to oversee implementation of various environmental safeguards proposed in EIA/EMP report during construction of the project. The monitoring report of the Committee shall be uploaded on the website of the Company.	We are in the process of forming a committee with experts from Ecology, Forestry, Wildlife, Sociology, Soil Conservation, Fisheries, NGO, etc for monitoring the implementation of various environmental safeguards proposed in EIA/EMP report during construction of the project. We will upload the report as stipulated.
	IX. Miscellaneous	
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied, abstract of Environmental Clearance was published in two widely circulated daily newspapers one in vernacular language i.e. Telugu in Sakshi, dt. 01.09.2020 in main edition. The copy of the same is enclosed as Annexure-7 .
ii	The copies of the environmental	Complied, copies of the Environmental

S. No.	EC Conditions	Status of Compliance
	clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	clearance letters were submitted to the local bodies and displayed for 30 days. (Copy of the same is enclosed as Annexure-8.)
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	As stipulated, we will submit the status of compliance of the stipulated environment clearance conditions from time to time.
iv	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted
v	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	We will submit Form – V as stipulated to SPCB during the operation of the project
vi	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	As stipulated, we will inform the Regional Office as well as the Ministry, the milestones of the project through Half – yearly compliance reports
vii	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	We hereby assure that we will adhere to the stipulations made by the State Pollution Control Board and the State Government

S. No.	EC Conditions	Status of Compliance
viii	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	We hereby assure that we will abide by all the commitments and recommendations made in the EIA / EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee
ix	No further expansions or modifications in the plant shall be carried out without prior approval of the Ministry of Environmental, Forest and Climate Change (MOEF&CC).	Shall be complied.
x	Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Shall be complied.
xi	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted.
xiii	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	We hereby assure that we will extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports for monitoring the compliance of the stipulated conditions.
xiv	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and	Noted.

S. No.	EC Conditions	Status of Compliance
	Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	
xv	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
	Part-B: Additional Conditions.	
i	Approval from Competent Authority for allocation of 1.2 TMC of water on a non-Consumptive basis from the Gorakallu Reservoir shall be obtained.	We have obtained necessary approvals from State Govt. for allocation of water from Gorakallu Reservoir vide G.O.Ms 19.07.2018 & 02.12.2020.
ii	The Environment Management Plan (EMP) shall be strictly adhered to as submitted in the EIA/EMP report and a sum of Rs. 11839.55 Lakhs, the budgetary provisions for implementation of EMP, shall be fully utilized and not to be diverted to any other purpose in case of revision of the project cost or due to price level change, the cost of EMP shall also be updated proportionately.	As stipulated, we have earmarked funds for environmental protection measures, and we will not divert for any other purpose.
iii	Investment of Rs. 27.35 Crore under Corporate Environmental Responsibility (CER) shall be strictly utilized for the activities proposed as per the ministry's office memorandum dated 01st May,2018. Activities proposed by the project proponent under CER includes provision to following focus area viz., education (200.00 lakhs) Health care (550.0 lakhs), infrastructure development (Rs. 425.0 lakhs), Skill Development and training for improved job opportunities	Being Complied. Corporate Environment Responsibility (CER) plan for improvement of basic infrastructure amenities and other community development activities in the project affected villages have been initiated. The status report of CER activities is enclosed as Annexure-6 .

S. No.	EC Conditions	Status of Compliance
	(Rs.1100.00 lakhs), Common interest activity (Rs.150.00 lakhs), Environmental Conservation and protection Awareness (Rs.15.00 lakhs), Sports (Rs.120.00 lakhs), Agriculture and Animal Husbandry (Rs.75.00 Lakhs) and Rain water Harvesting (Rs.100.00 lakhs). Under CER activities, preference should be given to strengthen the basic amenities in the project affected villages.	
iv	The clearance is valid for period of 10 years from the date of issue of this letter for commissioning of the project.	Noted
v	After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environmental and the downstream ecology. The study shall be undertaken by an independent agency, decided in consultation with the Ministry.	As stipulated, we will prepare Post EIA and SIA through Third party after five years of commissioning of the project.
vi	Solid waste generated, especially plastic waste, etc. should not be disposed of as landfill material. It should be treated with scientific approach and recycled. Use of single-use plastics may be discouraged.	Plastic waste will be generated in very less quantity mostly during the construction stage in the form of packaging material. The waste generated will be send to authorized recycler/owner for the further processing. Generation of plastic waste is not envisaged in the operation stage.
vii	Land acquired for the project shall be suitably compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provisions of Right to Fair Compensation and Transparency in Land Acquisition, rehabilitation, and Resettlement Act 2013.	Total private land of 120 ha (297 acres) being purchased through private negotiations, and it is well within the prescribed limits of 5000 acres as notified by the Govt. of Andhra Pradesh and further, in the land procured, there is no habitation present. Hence the provisions of R & R do not apply.
viii	Necessary permission to be obtained for	We hereby assure that we will obtain

S. No.	EC Conditions	Status of Compliance
	quarrying construction materials for the project as per the EIA Notification, 2006 and subsequent amendments thereof.	necessary permission for quarrying construction materials for the project as per the EIA Notification, 2006 and subsequent amendments thereof
ix	Preference to be given to the local villagers as per the requirements and suitability, in the job/other opportunities in the project, etc.	We hereby assure that local villagers will be given preference, as per the requirements and suitability, in the job/other opportunities in the project.
x	Measures to be taken to develop skills of the local villagers particularly with respect to the trades related to construction works such as electrician, welders, fitters, etc.	Skill Development training for the local youth was already initiated through the Skill Development Centre at Gani. So far 120 local youth from affected villages were provided with ITI & Other Training. Further, detailed need assessment and demand survey for skill mapping is underway.
xi	All required permission if any should be taken for the proposed Muck Dumping areas. Adequate protection measures should be taken up to avoid any spillage of the muck to the adjoining agricultural fields.	Muck will be disposed in the designated areas only. We hereby assure that we will take all measures to avoid spillage of the muck to the adjoining agricultural fields.
xii	Under CER activities, preference should be given to strengthen the basic amenities in the project affected villages like maintaining drinking water supply, providing health care facilities, etc.	Being Complied. Under the infrastructure development and Health care, large number of initiatives is being taken up for providing drinking water supply and primary health service in the project affected villages. The list of activities undertaken as part of CER is enclosed in Annexure-6 .
xiii	Preference to be given to the local villagers as per the requirements and suitability, in the job/ other opportunities in the project.	We hereby assure that local villagers will be given preference, as per the requirements and suitability, in the job/other opportunities in the project.
xiv	Measures to be taken to develop skills of the local villagers particularly with respect to the trades related to construction works such as electrician, welder, fitter, etc.	Skill Development training for the local youth was already initiated through the Skill Development Centre at Gani. So far 120 local youth from affected villages were provided with ITI & Other

S. No.	EC Conditions	Status of Compliance
		Training. Further, detailed need assessment and demand survey for skill mapping is underway.
xv	Approval of the Central Electricity Authority may be obtained for 1200 MW Pumped Storage Project	Detailed Project Report has been submitted to Central Electricity Authority (CEA), Government of India for issuance of concurrence and is at advanced stage of approval. For start of excavation activities, CEA has accorded permission vide letter dated 27.05.2020. (Copy enclosed as Annexure-5.)
xvi	Any other clearance from any other organization/departments as applicable to the project shall be obtained.	We have obtained all necessary clearances required before taking up the construction activities.

ANNEXURES

Annexure no.	Annexure
1	Forest clearance copy
2	Order copy of Conservation plan
3	CFE copy
4	Site Specific Seismic study report certified by Central Water Commission
5	Permission issued for CEA for excavation
6	Status of CER activities
7	Copy of the paper advertisement
8	Letter submitted to Local bodies for keeping EC copy
9	Environmental Monitoring reports
10	EMRDP Report

Government of India
Ministry of Environment, Forest and Climate Change
(Forest Conservation Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road
New Delhi - 110003
Dated: 24th May, 2021

To,
The Special Chief Secretary (Forests),
Department of Forest and Environment,
Government of Andhra Pradesh,
Amravati.

Sub: Proposal for diversion of 365.66 hectare (i.e. 319.02 ha. for Lower Reservoir + 22.50 ha. for Power House & TRC Outlet + 6.96 ha. for Penstock + 8.02 Ha for Intake Structure + 2.43 ha. for Tail Race Channel and 6.73 ha. for Internal Roads) of forest land in Compartment Nos. 113, 114, 115, 116 and 117 of Gani RF, Kurnool Range, Kurnool Division for establishment of Integrated Renewable Energy Project, Pinnapuram in favour of M/s Greenko Energies Pvt. Ltd., Hyderabad - regarding.

(This Final approval/Stage - II Clearance is granted under Section-2 (ii) of the Forest (Conservation) Act, 1980 for an area of only 46.64 ha of the total forest area)

Madam/Sir,

I am directed to refer to the Government of Andhra Pradesh's letter No.1926/Section. II/2019 dated 12th November, 2019 on the subject mentioned seeking prior approval of the Central Government under Section-2 of the Forest (Conservation) Act, 1980 and to say that the said proposal has been examined by the Forest Advisory Committee (FAC) constituted by the Central Government under Section-3 of the aforesaid Act. After careful examination of the proposal of the State Government and on the basis of the recommendations of the Forest Advisory Committee, *in-principle/ Stage-I* approval of the Central Government was accorded vide this Ministry's letter dt 23.04.2020 subjected to fulfillment of certain conditions. The State Government has furnished compliance report expect of mutating, transferring and notifying the entire identified CA land due to the ongoing Covid pandemic situation. The State govt. has notified an area of 62.99 ha of identified non-forest land in respect of the conditions stipulated in the Stage-I approval and has requested the Central Government to grant final approval with a request to allow them to start construction within the proposed diversion area for critical components of the project, such as Power Houser & TRC outlet (22.50 ha.), pen Stock (6.96 ha), Intake structure (8.02 ha), tail race channel (2.432 ha) and internal roads (6.73 ha),

totalling to 46.64 ha, out of 365.66 ha required for the project.

2. In this connection, I am directed to say that on the basis of the request, compliance report and the additional information furnished by the Government of Andhra Pradesh vide their letters dated 08.08.2020, 25.08.2020, 16.10.2020, 08.01.2021, 22.01.2021, 05.02.2021 and 19.04.202, **the Final approval/Stage - II Clearance (part approval for an area of 46.64 ha) of the Central Government is hereby granted under Section-2 (ii) of the Forest (Conservation) Act, 1980 for an area of 46.64 ha** to facilitate early start of work on certain components of the project in the proposed diversion area for the critical components of the project like "Power house & TRC outlet (22.50ha.), Pen stock (6.96 ha.), Intake structure (8.02 ha.), Tail race channel (2.43 ha.) and internal roads (6.73 ha.) altogether in 46.64 ha, out of 365.66 ha for the proposal for diversion of 365.66 hectare (i.e. 319.02 ha. for Lower Reservoir + 22.50 ha. for Power House & TRC Outlet + 6.96 ha. for Penstock + 8.02 Ha for Intake Structure + 2.43 ha. for Tail Race Channel and 6.73 ha. for Internal Roads) of forest land in Compartment Nos. 113, 114, 115, 116 and 117 of Gani RF, Kurnool Range, Kurnool Division for establishment of Integrated Renewable Energy Project, Pinnapuram in favour of M/s Greenko Energies Pvt. Ltd., Hyderabad, subject to the following conditions: -

A: Conditions which need to be complied prior to handing over of forest land to user agency by the State Govt.:

- i. User Agency may submit an undertaking stating that the remaining identified CA land i.e 337.54 ha (400.53-62.99 ha) area will be transferred, mutated and notified in the name of forest Dept. with a period of three months of handing over the forest land by the State Govt;
- ii. The State Govt. shall ensure the complete compliance on FRA, 2006; It should also be ensured that the FRA certificate issued by District collector is complete with letter number, date, name, signature and official seal, as required in the certificate;
- iii. The State Govt. shall ensure that the boundary of the diverted forest land, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates;
- iv. The proposed forest land i.e. 46.64 ha shall be handed over to the User Agency only after when the User Agency has acquired the required non-forest land i.e 62.99 ha , if any, for the project;
- v. The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required;
- vi. The State Government shall upload the kml files of the area under diversion and the accepted Non-forest land for raising compensatory afforestation in the E-Green Watch portal of FSI, before handing over forest land to the user

agency;

B: Conditions which need to be complied after handing over of forest land to the user agency by the State Govt.:

- i. Legal status of the forest land shall remain unchanged.
- ii. The State govt. may ensure that the remaining identified CA land i.e 337.54 ha (400.53-62.99 ha) area shall be transferred and mutated in the name of Forest Department and notified as RF/PF with **three** months from handing over the forest land to the User Agency. A copy of the original notification declaring the non-forest land under Section 4 or Section 29 of the Indian Forest Act, 1927, or under the relevant section of the State Forest Act as the case may be, will be submitted by the State Government;
- iii. **The State Govt. should ensure that the forest compartments (compartment Nos. 113, 114, 115, 116 and 117), which are getting adversely affected may be taken care of and afforestation (for improving canopy density from 'open' to 'moderately dense forest') may be taken up by the Forest Department at the cost of User Agency only to stabilise the rim of the reservoir i.e. 100 mts from the periphery of the HFL. Rest of the forest areas of affected compartments shall be taken up for improving canopy density through NPV, collected from this project;**
- iv. **The State Govt. should ensure that the user Agency will allow use of road infrastructure within project area to common public;**
- v. **The State Govt. should ensure that as per site inspection report, over an extent of 8.15 ha within the 408.68 ha of non-forest land surveyed for compensatory afforestation are in the nature of streams / cart road / government lands etc. Hence, this 8.15 ha area shall be demarcated suitably;**
- vi. **The State Govt. should ensure that the the User Agency shall raise avenue plantation on either side of the road proposed in the proposal, at the project cost;**
- vii. Compensatory afforestation shall be taken up by the Forest Department over 62.99 ha non-forest (part area) land in Sy.Nos.7-2, 9-5 etc., Kamireddipadu Village of Ananthasagaram Mandai at the cost of the user agency. As far as possible, a mixture of local indigenous species shall be planted and monoculture of any species may be avoided.
- viii. User Agency shall restrict the felling of trees to minimum numbers in the diverted forest land and trees shall be felled under strict supervision of the State Forest Department.
- ix. The felling of trees shall be restricted to FRL-4 meter only and felling of trees shall be carried out by the State Forest Department. Number of trees to be removed shall be kept at barest minimum during the execution of the project.
- x. The Catchment Area Treatment Plan (CAT) shall be implemented as per approved scheme if applicable;

- xi. User agency shall undertake afforestation along the periphery of the reservoir.
- xii. The layout plan of the proposal shall not be changed without prior approval of Central Government.
- xiii. No labour camp shall be established on the forest land.
- xiv. Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel.
- xv. The User Agency shall provide free water from the project for all forestry related activities;
- xvi. No damage to the flora and fauna of the adjoining area shall be caused;
- xvii. The concerned Divisional Forest Officer will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests in the surrounding area;
- xviii. The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.
- xix. No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work.
- xx. The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less.
- xxi. The User Agency and the State Government shall ensure compliance of all the Court orders, provisions, rules, regulations and guidelines for the time being in force as applicable to the project.
- xxii. The forest land shall not be used for any purpose other than that specified in the project proposal.
- xxiii. The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India.
- xxiv. No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work;
- xxv. Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per the MoEF&CC Guideline F. No. 11-42/2017-FC dt 29/01/2018. Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife.
- xxvi. The State Government and user agency shall ensure compliance to all conditions stipulated in the Stage-I approval letter dated 23.04.2020 for which

undertakings have been obtained from the user agency and also the provisions of the all Acts, Rules, Regulations and Guidelines, relevant Hon'ble Court Order (S) and NGT Order (S), if any, pertaining to this project for the time being in force, as applicable to the project.

After receipt of complete compliance report i.e. mutating, transferring and notifying the remaining CA land area i.e. 337.54 ha (400.53 -62.99 ha) , the central government will be according the final approval/Stage-II for the remaining area of 319.06 ha out of 365.66 hectare of forest land in Compartment Nos. 113, 114, 115, 116 and 117 of Gani RF, Kurnool Range, Kurnool Division for establishment of Integrated Renewable Energy Project, Pinnapuram in favour of M/s Greenko Energies Pvt. Ltd.

Yours faithfully,
Sd/-

(Sandeep Sharma)

Assistant Inspector General of Forests

Copy to:-

1. The PCCF (HoFF), Government of Andhra Pradesh, Amravati.
2. The Regional Officer, Integrated Regional Office, MoEF&CC, Vijayawada.
3. The Nodal Officer (FCA), Government of Andhra Pradesh, Amravati.
4. User Agency.
5. Monitoring Cell, Forest Conservation Division, MoEF & CC, New Delhi.

I/8528/2022

Government of India
Ministry of Environment, Forest and Climate Change
(Forest Conservation Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road
New Delhi - 110003
Dated: 24th May, 2022

To,
The Special Chief Secretary (Forests),
Department of Forest and Environment,
Government of Andhra Pradesh,
Amravati.

Sub: Proposal for diversion of an area of 319.06 ha (out of total area of 365.66 ha i.e. 319.02 ha. for Lower Reservoir + 22.50 ha. for Power House & TRC Outlet + 6.96 ha. for Penstock + 8.02 Ha for Intake Structure + 2.43 ha. for Tail Race Channel and 6.73 ha. for Internal Roads) of forest land in Compartment Nos. 113, 114, 115, 116 and 117 of Gani RF, Kurnool Range, Kurnool Division for establishment of Integrated Renewable Energy Project, Pinnapuram in favour of M/s Greenko Energies Pvt. Ltd., Hyderabad -regarding.

(The total Forest land involved is 365.66 ha out of which 46.64 ha has already been granted Stage-II vide this Ministry's letter of even no. dt 24.05.2021)

Madam/Sir,

I am directed to refer to the Government of Andhra Pradesh's letter No.1926/Section. II/2019 dated 12.11.2019 on the subject mentioned seeking prior approval of the Central Government under Section-2 of the Forest (Conservation) Act, 1980 and to say that the said proposal has been examined by the Forest Advisory Committee (FAC) constituted by the Central Government under Section-3 of the aforesaid Act. After careful examination of the proposal of the State Government and on the basis of the recommendations of the Forest Advisory Committee, *in-principle/ Stage-I* approval of the Central Government was accorded vide this Ministry's letter dt 23.04.2020 subjected to fulfillment of certain conditions.

2. Further, the State Government notified an area of 66.99 ha of identified non-forest land in respect of the conditions stipulated in the Stage-I approval and requested the Central Government to grant final approval to allow them to start construction within the proposed diversion area for critical components of the project, such as Power House & TRC outlet (22.50 ha.), pen Stock (6.96 ha), Intake structure (8.02 ha), tail race channel (2.432 ha) and internal roads (6.73 ha), totalling to 46.64 ha, out of 365.66 ha required for the project.

3. Based on the request of the State government the *Final approval/Stage - II Clearance (part approval for an area of 46.60 ha)* of the Central Government was granted under Section-2 (ii) of the Forest (Conservation) Act, 1980 *for an area of*

I/8528/2022

46.60 ha to facilitate early start of work on certain components of the project in the proposed diversion area for the critical components of the project vide this Ministry's letter of even no. dt 24.05.2021.

4. In this connection, I am directed to say that on the basis of the compliance reports and the additional information furnished by the Government of Andhra Pradesh vide their letters dated 08.08.2020, 25.08.2020, 16.10.2020, 08.01.2021, 22.01.2021, 05.02.2021, 19.04.2021, 13.12.2021, 22.12.2021 and 13.05.2022, the *Final approval/Stage - II* of the Central Government is hereby granted under Section-2 (ii) of the Forest (Conservation) Act, 1980 *for an area of 319.06 ha out of 365.66 ha (The total Forest land is 365.66 ha out of which 46.64 ha has already been granted Stage-II vide this Ministry's letter of even no. dt 24.05.2021)* for the proposal for diversion of 365.66 hectare (i.e. 319.02 ha. for Lower Reservoir + 22.50 ha. for Power House & TRC Outlet + 6.96 ha. for Penstock + 8.02 Ha for Intake Structure + 2.43 ha. for Tail Race Channel and 6.73 ha. for Internal Roads) of forest land in Compartment Nos. 113, 114, 115, 116 and 117 of Gani RF, Kurnool Range, Kurnool Division for establishment of Integrated Renewable Energy Project, Pinnapuram in favour of M/s Greenko Energies Pvt. Ltd., Hyderabad, subject to the following conditions: -

A: Conditions which need to be complied prior to handing over of forest land to user agency by the State Govt.:

- i. The State Govt. shall ensure the complete compliance on FRA, 2006;
- ii. The State Govt. shall ensure that the labour sheds in Dubagunta parcel of identified CA land shall be removed at the cost of user agency;
- iii. The State Govt. shall ensure that the the labour sheds & cattle sheds along with fencing in Kamireddipadu bit 2 of identified CA land shall be removed at the cost of the user agency;
- iv. The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required;
- v. The State Government shall upload the kml files of the area under diversion and the accepted Non-forest land for raising compensatory afforestation in the E-Green Watch portal of FSI, before handing over forest land to the user agency;

B: Conditions which need to be complied after handing over of forest land to the user agency by the State Govt.:

- i. Legal status of the forest land shall remain unchanged.
- ii. **The State Govt. should ensure that the forest compartments (compartment Nos. 113, 114, 115, 116 and 117), which are getting adversely affected may be taken care of and afforestation (for improving canopy density from 'open' to 'moderately dense forest') may be taken up by the Forest Department at the**

I/8528/2022

- cost of User Agency only to stabilise the rim of the reservoir i.e. 100 mts from the periphery of the HFL. Rest of the forest areas of affected compartments shall be taken up for improving canopy density through NPV, collected from this project;
- iii. The State Govt. should ensure that the user Agency will allow use of road infrastructure within project area to common public;
 - iv. The State Govt. should ensure that the User Agency shall raise avenue plantation on either side of the road proposed in the proposal, at the project cost;
 - v. The Compensatory Afforestation shall be taken up by the State Forest Department over identified Non-Forest land i.e. 377.32 ha (62.99 ha +314.33 ha) at the cost of the User Agency. As far as practicable a mixture of local indigenous species will be planted and monoculture of a species has to be avoided;
 - vi. User Agency shall restrict the felling of trees to minimum numbers in the diverted forest land and trees shall be felled under strict supervision of the State Forest Department;
 - vii. The felling of trees shall be restricted to FRL-4 meter only and felling of trees shall be carried out by the State Forest Department. Number of trees to be removed shall be kept at barest minimum during the execution of the project;
 - viii. The Catchment Area Treatment Plan (CAT) shall be implemented as per approved scheme if applicable;
 - ix. User agency shall undertake afforestation along the periphery of the reservoir;
 - x. The layout plan of the proposal shall not be changed without prior approval of Central Government;
 - xi. No labour camp shall be established on the forest land;
 - xii. Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel;
 - xiii. The User Agency shall provide free water from the project for all forestry related activities;
 - xiv. No damage to the flora and fauna of the adjoining area shall be caused;
 - xv. The concerned Divisional Forest Officer will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests in the surrounding area;
 - xvi. The State Govt. shall ensure that the boundary of the diverted forest land, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates;

- xvii. The State Govt. shall ensure that the user agency shall erect concrete boundary pillars along the periphery of the all bits of Non Forest land (NFL) proposed for Compensatory Afforestation except in the boundary abutting the RF/PF;
- xviii. No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work;
- xix. The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less;
- xx. The User Agency and the State Government shall ensure compliance of all the Court orders, provisions, rules, regulations and guidelines for the time being in force as applicable to the project;
- xxi. The forest land shall not be used for any purpose other than that specified in the project proposal;
- xxii. The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India.
- xxiii. Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per the MoEF&CC Guideline F. No. 11-42/2017-FC dt 29/01/2018. Any other condition that the Ministry of Environment, Forest and Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife.
- xxiv. The State Government and user agency shall ensure compliance to all conditions stipulated in the Stage-I approval letter dated 23.04.2020 for which undertakings have been obtained from the user agency and also the provisions of the all Acts, Rules, Regulations and Guidelines, relevant Hon'ble Court Order (S) and NGT Order (S), if any, pertaining to this project for the time being in force, as applicable to the project.

Yours faithfully,

Sd/-

(Sandeep Sharma)

Assistant Inspector General of Forests

Copy to:-

1. The PCCF (HoFF), Government of Andhra Pradesh, Amravati.
2. The Regional Officer, Integrated Regional Office, MoEF&CC, Vijawada.
3. The Nodal Officer (FCA), Government of Andhra Pradesh, Amravati.
4. User Agency.
5. Monitoring Cell, Forest Conservation Division, MoEF & CC, New Delhi.

**GOVERNMENT OF ANDHRA PRADESH
FOREST DEPARTMENT**

From

Sri. N.Prateep Kumar, I.F.S.,
Prl. Chief Conservator of Forests & HoFF and
Prl. Chief Conservator of Forests (WL) & Chief
Wildlife Warden (FAC),
Andhra Pradesh, Aranya Bhavan,
Guntur - 522 004.

To

The Authorised Signatory,
M/s Greenko Energies Pvt.
Limited,
Kurnool.

Rc.no. 8531/2021/WL-2, Date: 23/02/2022.

Sub:Andhra Pradesh Forest Department - Wildlife - Pinnapuram IREP (1200 MW)
-Pumped storage Project in Kurnool District of Andhra Pradesh by M/s
Greenko Energies Pvt. Limited, Kurnool - Authentication of Flora and Fauna
& Location Map - Approval of Biodiversity and Wildlife Conservation &
Management Plan and Wildlife Conservation Plan for Schedule-I species -
Orders Issued - Regarding.

Ref:-

1. Minister of Environment, Forest and Climate Change, Impact
Assessment Division, IA.I Division, Government of India, New Delhi
no.J-12011/12/2018-IA-I dated 14.07.2020
2. Greenko Energies Pvt. Ltd., Ref GEPL/CLW/EC/210907 dated:
07.09.2021.
3. CF, Kurnool Rc.no. 2825/2018/TO dt. 06.01.2022.

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It is informed that in response to the references 1st & 2nd cited, the
Conservator of Forests, Kurnool has submitted Biodiversity and Wildlife
Conservation & Management Plan and Wildlife Conservation Plan for Schedule-I
species, in the references 3rd cited. The following points are hereby
authenticated.

- There is no National Park, Wildlife Sanctuary within a radius of 10 Km from
the project site.
- The distance from the proposed plant area to the Eco-Sensitive Zone of
Rollapadu Wildlife Sanctuary is 11.25 km.
- **The Biodiversity and Wildlife Conservation & Management Plan for
Rs.259.50 lakh and Wildlife Conservation Plan for Schedule-
I species prepared for the following Schedule-I fauna of the impact
zone (10 km radius) for Rs.178.25 lakh is hereby approved for its
implementation.**
 1. Antelope cervicapra (Black Buck)
 2. *Pavo cristatus* (Peafowl)
 3. *Elanus axillaris* (Black shoulder kite)

Further, the Authorized Signatory, M/s Greenko Energies Pvt. Limited,
Kurnool, Andhra Pradesh is requested to deposit an amount of Rs.93.25 lakh
(Rupees: Ninety three lakh and twenty five thousand only) in the following

Account at an early date;

Name of the account:	Wildlife Conservation projects & CSR (WLC & CSR)
Name of the Bank	Union Bank of India, Kannavarithota Branch, Guntur, Andhra Pradesh.
Account No.	024210100114054.
IFSC code:	UBIN0802425

Encl:-Map & Conservation Plan

N Prateep Kumar Ifs

Principal Chief Conservator of Forests & HoFF &
Principal Chief Conservator of Forests (WL) &
Chief Wildlife Warden (FAC)

Copy submitted to the Secretary, MoEF & CC, Impact Assessment Division,
Government of India, 3rd Floor, Vayu wing, Indira Paryavaran Bhawan, Jorbagh
Road, Aliganj, New Delhi - 110003.



Copy to the Conservator of Forests, Kurnool for information and necessary action.
Copy to the District Forest Officer, Kurnool for information and necessary action.

Signed by N Prateep Kumar

Ifs

Date: 23-02-2022 12:00:51

Reason: Approved

	<p>ANDHRA PRADESH POLLUTION CONTROL BOARD Paryavaran Bhavan, APIIC Colony Road, Gurunanak Colony, Autonagar, Vijayawada- 520007. Website: www.pcb.ap.gov.in</p>	
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AMENDMENT TO CTE ORDER

Order No.310 /APPCB/CTE/RO-KNL/HO/2019-

07/07/2023

Sub: APPCB - CTE - M/s.Greenko Energies Pvt Ltd (GEPL), Pinnapuram Village, Panyam (M), Nandyal District – **Change of name in the CTE order –Amendment** - Issued – Reg.

- Ref:**
1. EC Order No. J-12011/12/2018-IA-I dated.14.07.2020 issued by MoEF & CC, GoI, New Delhi.
 2. CFE order No. 310/ APPCB/ CFE/RO-KNL/HO/2020 Dt. 07.10.2020.
 3. Registrar of Companies: certificate of incorporation dated 12.03.2020
 4. EC Amendment order dt.13.02.2023 with respect to transfer of Environmental Clearance from M/s.Greenko Energies Pvt.Ltd (GEPL) to M/s Greenko AP01 IREP Private Limited.
 5. Industry's representation for transfer of name from M/s.Greenko Energies Pvt.Ltd (GEPL) to M/s Greenko AP01 IREP Private Limited received on 11.04.2023.
 6. RO: Kurnool report dt.14.06.2023.
 7. CTE Committee meeting held on 05.07.2023.

1. M/s.Greenko Energies Pvt Ltd (GEPL), vide reference 1st cited, obtained Environmental Clearance form MoEF&CC, GoI, New Delhi in the name of M/s. Greenko Energies Pvt. Ltd (GEPL) to setup 1200 MW Stand alone pumped storage component of Pinnapuram Integrated Renewable Energy project at Pinnapuram (V), Panyam (M), Nandyal District.
2. The Board, vide reference 2nd cited, issued CFE to M/s. Greenko Energies Pvt. Ltd(GEPL) to setup Electric power generation by Standalone Pumped Storage Plant – 1200 MW.
3. The MoEF & CC, Govt., of India, vide reference 4th cited, issued transfer of EC from M/s.Greenko Energies Pvt.Ltd (GEPL) to M/s Greenko AP01 IREP Private Limited.
4. The industry, vide reference 5th cited, made a representation to the Board for change of name of the industry from “M/s. Greenko Energies Pvt. Ltd (GEPL) to M/s. Greenko AP01 IREP Private Limited” (as the Government of Andhra Pradesh, vide order dt.13.06.2020 has inter-alia accorded approval and permission to develop the integrated renewable energy project under newly formed special purpose vehicle (SPV) namely “M/s. Greenko AP01 IREP Private Limited”).
5. The RO: Kurnool, vide reference 6th cited, submitted the report on request of the industry duly enclosing copy of the Certificate of Incorporation pursuant to change of name issued by Ministry of Corporate Affairs, Govt. of India from “M/s. Greenko Energies Pvt. Ltd (GEPL) to M/s Greenko AP01 IREP Private Limited”.
6. The representation by the industry and RO report were placed before the CTE Committee during its meeting held on 05.07.2023. After detailed discussion and perusal of certificate of incorporation issued by Ministry of Corporate Affairs, Govt. of India and transfer of EC, the Committee recommended to issue amendment to the CTE order dt.07.11.2020 in the name of the company as “M/s Greenko AP01 IREP Private Limited in lieu of M/s.Greenko Energies Pvt.Ltd (GEPL).
7. In view of the above, the Board after careful examination of industry's request, remarks of the Regional Officer and recommendations of the CTE Committee, hereby incorporates the following AMENDMENT TO THE CTE ORDER issued vide reference 2nd cited, under Sec.25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under Sec.21 of

the Air (Prevention and Control of Pollution) Act, 1981 and amendments thereof.

“The name of the industry is amended and shall be read as M/s Greenko AP01 IREP Private Limited in lieu of M/s. Greenko Energies Pvt. Ltd (GEPL) in the CFE order dt.07.10.2020.”

8. The industry shall comply with following conditions:
- The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.
 - The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.
 - The industry shall submit risk assessment report covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.
 - The industry shall obtain PESO clearance & policy under PLI Act and shall be renewed from time to time.
9. All other conditions mentioned in the CTE order issued vide reference 2nd cited remain the same.

#Approvedby#

To
M/s.Greenko Energies Pvt Ltd (GEPL),
Pinnapuram Village, Panyam (M),
Nandyal District

Copy to: 1. The JCEE, Z.O: Kurnool for information and necessary action.
2. The E.E., R.O: Kurnool for information and necessary action.

**ANDHRA PRADESH POLLUTION CONTROL BOARD**

D. No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010
Website: www.pcb.ap.gov.in

CONSENT ORDER FOR ESTABLISHMENT**Order No.310/APPCB/CFE/RO-KNL/HO/2020****07/10/2020**

Sub:APPCB – CFE - **M/s Greenko Energies Pvt. Ltd (GEPL), at Pinnapuram (V), Panyam (M), Kurnool District** – Consent for Establishment of the Board **Pumped Storage Hydel Power Project** under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

Ref: 1. EC Order dt.14.07.2020 issued by MoEF & CC, Gol, New Delhi.
2. Industry's application received on 21.08.2020.
3. R.O's inspection report dt.24.09.2020.
4. CFE Committee meeting held on 30.09.2020.
5. Industry's Ir. dt. 29.09.2020 & 30.09.2020.

1. In the reference 3rd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to establish integrated plant of Pumped Storage Hydel Power project with installed capacities as mentioned below, with a project cost of **Rs.5468.02 Crores**.

S. No.	Name of the Activity	Capacity
1.	Electric power generation by Standalone Pumped Storage Plant	1200 MW

Energy consumption during pumping (LR to UR) & details of units		
Description	Turbine mode	Pump mode
Unit Capacity	200MW	244MW
Unit Capacity	100MW	130MW
Head	119.27m	125.77m
Duration	8.00hr	8.73hr
Annual Energy		
Generation	3376 MU	--
Consumption	--	4479MU
Generation capacity per day	1200MW(i.e 200*5 +100*2)	
Pumping capacity per day	1480MW (i.e 244*5 +130*2)	

Water is to be drawn from existing Gorakallu reservoir to fill up Pinnapuram reservoirs of capacity 1.2 TMC. This water is to be used to generate electricity (hydel power) through pumped storage system.

2.The proposed Standalone Pumped Storage Project to generate 1200MW hydel power is a part of Pinnapuram Integrated Renewable Energy Project (IREP) Pinnapuram. IREP has been conceived as integrated project with solar, wind and pumped storage components. Government of A.P. has approved the project with 1000 MW Solar, 550 MW Wind & 1200MW hydel power from Standalone Pumped Storage capacities to be developed in Phase I. All three components of Pinnapuram IREP are in close vicinity of each other and therefore power from all three components will be pooled into common pooling station and will be connected to PGCIL/CTU sub-station at Orvakallu for further supply into the National Grid.

CPCB vide Ir.dt.18.01.2017 had classified the “Solar Power generation through solar photo voltaic cell plants of all capacities”, “wind power plants of all capacities” and “Mini Hydel Power plants of capacity less than 25 MW” under “White category”. The white category industries need not obtain consent of the State PCB. An intimation to the SPCB is sufficient.

In the reference 1st cited, the industry has obtained EC for installation of an integrated plant of Hydel power (1200 MW) stand alone pumped storage component of Pinnapuram Integrated Renewable Energy project at Pinnapuram (V), Panyam (M), Kurnool District.

3.As per the application, the above activity is to be located at **Pinnapuram (V), Panyam (M), Kurnool District** in an area of 1763.42 acres.

4.The above site was inspected by the Environmental Engineer, Regional office, Kurnool, A.P Pollution Control Board on 25.08.2020 and found that the site is surrounded by

North	: Agricultural lands
South	: Pinnapuram village
East	: Agricultural lands followed by Ghani RF
West	: Agricultural lands and Ghani RF

5.The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE Committee, hereby issues **CONSENT FOR ESTABLISHMENT** to your project Under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to the activity as mentioned at Para (1) only.**

6.This Consent Order now issued is subject to the conditions mentioned in Annexure.

7. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

8. This order is valid for a period of 7 years from the date of issue.

Encl: Annexure.

**BATCHU SIVA PRASAD, JCEE(BSP), O/o JOINT CHIEF ENVIRONMENTAL
ENGINEER1-APPCB
Joint Chief Environmental Engineer**

To
M/s. Greenko Energies Pvt. Ltd (GEPL),
Pinnapuram (V), Panyam (M),
Kurnool District.
gopikrushna.n@greenkogroup.com

Copy to: 1. The JCEE, Z.O: Kurnool for information and necessary action.
2. The E.E., R.O: Kurnool for information and necessary action.

ANNEXURE

1. Separate energy meter shall be provided for Sewage Treatment Plant (STP) to record energy consumed.
2. The proponent shall obtain Consent for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.

WATER:

3. Water is to be drawn from existing Gorakallu reservoir to fill up Pinnapuram reservoirs of capacity 1.2 TMC. This water is to be used to generate electricity (hydel power) through pumped storage system. In addition to above, the maximum permitted water consumption from **Gorakallu Reservoir** is as following:

S. No.	Purpose	Quantity (KLD)
a.	Green belt	10
b.	Domestic	90
	Total	100 KLD

Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purpose mentioned below.

4. The maximum Waste Water Generation (KLD) shall not exceed the following:

S. No.	Source	Quantity (KLD)
a.	Domestic	72
	Total	72 KLD

ETP Details & Mode of Disposal :

Source of effluent	Treatment	Mode of final disposal
Domestic	Sewage Treatment Plant	To be utilized for on land gardening after conforming to on land for irrigation standards.

Hazardous / Solid Waste details:

S. No.	Name of the Waste	Quantity	Proposed Disposal Option
1.	Waste oil	500 Ltrs/annum	To authorized Re-processors / Recyclers / to the Cement industries for co-processing in the kiln.
2.	Used lead acid batteries	15 Nos./annum	To dealers on buy back system

3	Muck	90 TPM	To be disposed into designated sites away from the HFL of the river.
4	Sludge from STP	10 kg/day	TSDf for secured land filling (or) To store in HDPE bags and reuse as manure for greenbelt development
5	Municipal Solid Waste	360 kg/day	To be converted into manure through Organic waste converter/Composting

6. Air pollution:

S. No.	Details of Stack	Stack 1	Stack 2	Stack 3	Stack 4	Stack 5
a)	Attached to:	DG set (for standby operations for upstream intake)	DG set (for standby operations for upstream intake)	DG set (for standby operations for Power house)	DG set (for standby operations for Power house complex)	DG set (for standby operations for downstream intake)
b)	Capacity	75 KVA	125 KVA	500 KVA	500 KVA	75 KVA
c)	Name of the Fuel	Diesel	Diesel	Diesel	Diesel	Diesel
d)	Stack height	6 m	6.5m	8.5m	8.5m	6m
e)	Air Pollution Control Equipment	Silencer with acoustic enclosure	Silencer with acoustic enclosure	Silencer with acoustic enclosure	Silencer with acoustic enclosure	Silencer with acoustic enclosure

S. No.	Details of Stack	Stack 6	Stack 7	Stack 8	Stack 9	Stack 10
a)	Attached to:	DG set (for standby operations for downstream intake)	DG set (for standby operations for workshop)	DG set (for standby operations for workshop)	DG set (for standby operations for workshop, store, stock yard)	DG set (for standby operations for Pressure shaft)
b)	Capacity	125 KVA	200 KVA	300 KVA	125 KVA	300 KVA
c)	Name of the Fuel	Diesel	Diesel	Diesel	Diesel	Diesel
d)	Stack height	6.5m	7m	7.5m	6.5m	7.5m

e)	Air Pollution Control Equipment	Silencer with acoustic enclosure	Silencer with acoustic enclosure	Silencer with acoustic enclosure	Silencer with acoustic enclosure	Silencer with acoustic enclosure

7. The proponent shall comply with the following for controlling noise pollution during construction phase.
 - a. Operation of various construction equipment – proper maintenance of equipment.
 - b. Regular over hauling provision of ear plugs and ear muff to the staff.
8. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.
9. The following rules and regulations notified by the MoE&F, Gol shall be implemented.
 - a. Regulation of Persistent Organic Pollutants Rules, 2018.
 - b. Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
 - c. Plastic Waste Management Rules, 2016.
 - d. Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
 - e. Fly Ash Notification, 2016.
 - f. Batteries (Management & Handling) Rules, 2010.
 - g. E-Waste (Management) Rules, 2016.
 - h. Construction and Demolition waste Management Rules, 2016.
 - i. Solid Waste Management Rules, 2016.
 - j. The Public Liability Insurance Act, 1991 and its amendments thereof.

Other Conditions:

10. The industry shall comply with all the conditions stipulated in the EC order dt.14.07.2020 issued by MoEF & CC, Gol, New Delhi.
11. Adequate protection measures shall be taken up to avoid any spillage of muck to the adjoining agricultural fields.
12. To reduce the impact during spawning period both at the upstream and downstream of the project.
13. The proponent shall explore the possibility to convert the organic waste into bio-gas. The bio-gas can be used for cooking purposes.

14. The proponent shall develop plantation along the periphery of the reservoir in multi-layers with local indigenous species in consultation with local State Forest Department.
15. No further expansion or modifications in the project shall be carried out without prior approval of MoEF & CC, GoI, New Delhi / APPCB.
16. Emergency preparedness plan be made for any eventuality of the failure of reservoir bund and shall be implemented as per the Disaster Management Plan.
17. The proponent vide mail dt.30.09.2020 submitted as following:

"The development of rock fill embankment is major activity. There is no possibility of flash flood for Gumttanda village as there is negligible catchment, secondly the existing catchment is draining through this village only and there is no history of flashflood. As per topography upper reservoir is draining towards eastern side and there is no possibility of food waters coming towards this side. The proposed Lower reservoir is going to have drainage mechanism to drain the water, in case of flash floods.

Measures to avoid breaches have been built into the embankment design ensuring the probability of failure very low. This being a rock fill embankment, where failure takes long period of time after the symptoms are noticed. Whereas, the reservoir can be drained completely in a period of 8-10 hrs, thus ruling out any possibility of sudden release."

The industry shall therefore implement Disaster Management Plan to meet the emergencies if any in construction / operational phase and other safety measures as per the details submitted in their mail dt.30.09.2020.

18. **The industry shall submit compliance to the conditions stipulated in the EC and CFE orders to the concerned Regional Officer of APPCB every six months and shall upload the same at APPCB website viz., https://pcb.ap.gov.in/UI/Submission_Compliance_of_EC_CFE_CFO_Direction.aspx.**
19. **The proponent shall obtain necessary permissions for the proposed activity, from the concerned Government Departments and other competent authorities.**
20. As per the provision of Fly ash Notification No.S.O.2804 (E), dt. 03.11.2009 and its amendments thereof, every construction agency engaged in the construction of building within a radius of 300 km from a coal or lignite based thermal power plant shall use only fly ash based products for construction, such as cement or concrete, fly ash bricks or tiles or clay fly ash bricks, blocks or tiles or cement fly ash bricks or bricks or blocks or similar products or a combination or aggregate of them in every construction project.
21. Concealing the factual data or submission of fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
22. Notwithstanding anything contained in this conditional letter or consent, the Board

hereby reserves its right and power Under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions by the Board.

23. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules, 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

**BATCHU SIVA PRASAD, JCEE(BSP), O/o JOINT CHIEF ENVIRONMENTAL
ENGINEER1-APPCB
Joint Chief Environmental Engineer**

**To
M/s. Greenko Energies Pvt. Ltd (GEPL),
Pinnapuram (V), Panyam (M),
Kurnool District.
gopikrushna.n@greenkogroup.com**

Speed Post



भारतसरकार Government of India
 केंद्रीयजलआयोग Central Water Commission
 नॉवअभियांत्रिकीएवंविशेषविश्लेषणनिदेशालय F. E. & S. A. Directorate
 आठवीं मंजिल (उ), सेवा भवन रा कृ पुरम नई दिल्ली 110066
 8th Floor (N), Sewa Bhawan, R.K. Puram, New Delhi-110066
 दूरभाष/फैक्स Tel/Fax: 011-29583734 ई मेल/e-mail: fesadte-cwc@nic.in

No. 2/2/2020/FE&SA/ 324

Dated: 16/10/2020

To

GREENKO ENERGIES
 PRIVATE LIMITED
 Plot No. 1071, Road No.44,
 Jubilee Hills, Hyderabad-500033,
 Telangana
 Fax: 040-23540287
 Email: nanda.pm@greenkogroup.com

Sub: Site Specific Design Earthquake Parameters for Pinnapuram Pumped Storage Project, Andhra Pradesh – reg.

Ref: Project authority's letter no. GEPL/PINNAPURAM/2019-1107 dated 06.11.2019.

Sir,

This is with reference to your aforesaid letter vide which the site specific seismic study report of the Pinnapuram Pumped Storage Project, Andhra Pradesh was submitted to the National Committee on Seismic Design Parameters (NCSDP) for approval.

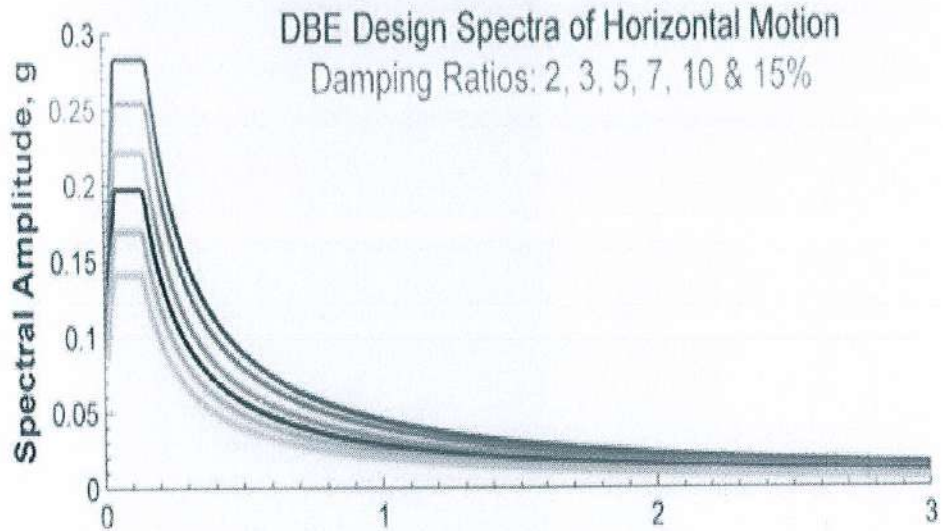
The NCSDP has approved study report of aforesaid project in its 36th meeting held on 14th August, 2020.


 16/10/2020

Contd.....

The seismic design parameters of Pinnapuram Pumped Storage Project, Andhra Pradesh summarized in the Minutes of the NCSDP meeting are reproduced below:

(a) Response Spectra (DBE-H)



(b) Other seismic parameters

Max. Credible Earthquake	5.7	Horizontal distance to surface projection of fault (R_{JB}) (km)	12.3
Horizontal seismic co-efficient (α_h)	.06	Vertical seismic co-efficient (α_v)	0.04
Strong motion duration (second)	5	Total duration (second)	25
Report reference	Project authority's letter no. GEPL/Pinnapuram/BD/20191115 dated 15.11.2019.		

It is requested to do the needful for the safe design of the Pinnapuram Pumped Storage Project, Andhra Pradesh components as per NCSDP's approval.

Yours faithfully,

[Signature]
16/10/2020

Director (FE&SA) &
Member-Secy (NCSDP)



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
जल परियोजना आयोजन एवंअन्वेषणप्रभाग
Hydro Project Planning & Investigation Division

No. 81/3/2020-HPP&I/ 850

Date: 27.05.2020

✓ M/s Greenko Energies Private Limited,
Plot No. 1071, Road No. 44,
Jubilee Hills, Hyderabad-500033,
Telangana.

Sub: Pinnapuram Standalone Pumped Storage Project-request for support for expeditious construction of the project.

Sir,

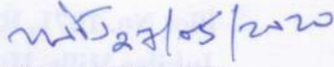
Reference is invited to M/s Greenko letter no. GEPL/ 2019-2020/BD/20191021 dated 21.10.2019 on the above mentioned subject wherein permission has been sought to take up excavation activities on certain critical components including the embankments and the deep seated power house etc. of the above cited Pumped Storage Project (PSP) before accord of concurrence by CEA. It has been stated in the letter that this will compress the construction period of the project by about 6 months, thereby making it competitive with other technologies of energy storage. Subsequently, as desired during the meeting held in CEA on 07.11.2019, M/s Greenko also submitted the quantum and extent of the proposed excavation activities.

In this connection, it is to mention that majority of clearances/ conditional clearances required for submission of DPR for Pinnapuram Standalone Pumped Storage Project have already been accorded including the same by GSI, CSMRS as well as CWC (for civil designs & embankment designs etc.). It is also to add that the issue of taking up excavation activities on certain critical project components had been discussed at length with the other appraising agencies viz. GSI, CSMRS and CWC in the meetings held in CEA and it was noted that no separate permission was being granted by CEA to any developer for start of construction or excavation. As such, it was felt that there should be no need for any such permission in case of Pinnapuram project as well. However, keeping in view the need for faster implementation of the PSP component of the Pinnapuram Integrated Renewable Energy Project for providing

balancing support to its Solar and Wind generator components, thereby, helping in maintaining the overall grid security and stability in general, CEA does not have any objection to the aforesaid advance excavation before concurrence, subject to the following conditions:

- i) Advance excavation would be carried out by M/s GREENKO at their own risk & cost and they would be solely responsible for the loss of men & material, if any, in the process.
- ii) Due permissions/ clearances from all concerned authorities shall be obtained by M/s GREENKO before carrying out any advance excavations.
- iii) Necessary safety and support measures required during excavation, as advised by GSI, shall be ensured by M/s GREENKO.
- iv) The project site would be restored to its original condition by M/s GREENKO, in case the project is abandoned for any reason, whatsoever, at a later date.

Yours Sincerely,


(Manoj Tripathi)
Director (HPP&I)

Copy to:

1. Special Chief Secretary & Head (Energy Dept.), Government of Andhra Pradesh, Secretariat, Hyderabad-500001.
2. Director, EPE Division, DGCO, Geological Survey of India, A-II, Pushpa Bhawan, Madangir Road, New Delhi.
3. Director, CSMRS, Olof Palme Marg, Hauz Khas, New Delhi.
4. Chief Engineer, Designs (NW&S), Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi.
5. SA to Chairperson, CEA
6. SA to Member (Hydro), CEA.

**STATUS REPORT ON
CORPORATE SOCIAL & ENVIRONMENT
RESPONSIBILITY (CSER) ACTIVITY AT
PINNAPURAM IRESP, ANDHRA PRADESH STATE
(Uptill Sept 2023)**

Contents

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6. CSER ACTIVITY AT A GLANCE	13-22

1. INTRODUCTION

Greenko Group as part of its overall business operations is addressing many important aspects of local sustainable development like Social, Economic and Environment development and specifically issues associated with Climate Change, Local and Regional Environmental Degradation, Powering the Economy, Generating Wealth and Employment, Technology Innovation and Inclusive Development. It is addressing these issues through its Corporate Social and Environment Policy initiatives. In line with the above policy this status report presents the details of the Corporate Environment Responsibility (CER) Plan implemented at Pinnapuram Integrated Renewable Energy and Storage Project (IRESP) located at Nandyal District, Andhra Pradesh.

2. CORPORATE SOCIAL & ENVIRONMENT POLICY

Greenko Group is committed to sustainable development at all its facilities and work to the satisfaction of all stakeholders while fulfilling its social, economic and environmental responsibilities. Social Responsibility being one of its core values, it aligns its community development activities through regular stakeholder engagements resulting in inclusive growth.

2.1 Vision

Greenko Group aims to improve the quality of life of our neighborhood communities through equitable and proactive smart initiatives in spheres of education, health, rural development, environment and livelihoods resulting in improvement of the overall local social, economic and environmental conditions. The Group aims to achieve its vision through an effective institutional setup with a dedicated team and a well-designed program-based approach, management systems, stakeholder engagements, monitoring and impact assessments.

2.2 Policy Principles

Some of the Social and Environment Policy guiding principles for achieving the above sustainable development vision include to ensure that all Group level activities at both operations and projects:

- Are environmentally and socially sustainable
- Are compliant with applicable environmental and social regulations in the host country and the commitments of the country to international laws/ agreements
- Are compliant with the applicable green or clean energy guidelines
- Anticipate environment and social impact of its projects through environmental and social impact assessment

- Continually monitor their environmental and social impact – and take appropriate measures for remedying or correcting or avoiding in future
- Pursue fair labor and safe working conditions, promote equal opportunity, work-life balance and respect human rights of employees and community.
- Anticipate and avoid adverse impacts on the health, safety and security of the employees and community.
- Anticipate and avoid or minimize adverse social and economic impacts.
- Pursue resource efficiency, pollution prevention and minimize waste generation.
- Protect and conserve biodiversity and practice sustainable management.
- Avoid negative impact on cultural heritage and indigenous peoples' rights
- Ensure that all personnel working for Greenko are aware of the environmental and social requirements relevant to their area of work
- Continually build capacity, through training or other means, to identify environmental and social risks as well as to identify mitigating measures

2.3 Policy Thrust Areas and Objectives

At the Group level Greenko has identified five critical areas to focus for its Corporate Social and Environment Responsibility initiatives. The focus areas and the broad objectives under the identified thrust areas which are in line with the relevant United Nations Sustainable Development Goals include the following.

- ✓ **Education** – To ensure access to equitable and quality primary and secondary education leading to relevant and effective learning outcomes in rural communities.
- ✓ **Healthcare** – To provide access to quality healthcare to our workforce and the rural communities close to our operations.
- ✓ **Rural Development** – To improve the living standards of rural people in an equitable and sustainable manner through creation of community services and facilities.
- ✓ **Livelihoods & Skill Development** - To ensure access to skill training for the local people leading to relevant and sustainable livelihoods for rural communities.
- ✓ **Environment** - To protect and manage the living natural resources within its project vicinity and promote the conservation of biodiversity.

3. PROJECT AFFECTED AREA FOR CSER ACTIVITY

The proposed Project is located at Pinnapuram Village under Panyam Mandal, Nandyal District of Andhra Pradesh State. The Project affected area is presented in **Table 1** below.

Table 1: Affected Area around the Project

District	Mandal	Gram Panchayat	Name of Village /Hamlet
Nandyal	Panyam	Pinnapuram	Pinnapuram
		Thammarajpalli	Thammarajpalli
Kurnool	Orvakal	Brahamanapalle	Brahamanapalle & Gumtham Thanda
	Gadivemula	Chennakkapalle	Ondutla, LK Thanda and Y K Thanda
	Gani	Gani	Gani

Among the affected villages Pinnapuram Village and Gumtham Thanda Hamlet under Brahamanapalle Village are in close vicinity of the Project and affected due to the Project activities. Ondutla Village under Chennakkapalle Panchayat is partially affected by the Project activity. Although the affected Gram Panchayat under Gadivemula Mandal is named as Chennakkapalle there is no habitation/settlement with that name.

4. FOCUS AREAS FOR CSER ACTIVITY

Based on the need assessment and local consultations in project affected villages the following focus areas covering many important components of the sustainable development such as social, economic, livelihoods and environment are identified and set of development activities proposed under each focus area for the benefit of the local people under the Project. The **Table 2** below presents the thrust area and the nature of activity proposed as part of the CER Plan.

Table 2: Focus Area and Nature of CSER Activity

Focus Area	Nature of Activity
Education	<ul style="list-style-type: none">• Need based infrastructure support for existing Schools• Support for basic amenities in existing Schools• Support for teaching and learning materials• Support for improving quality of education• Support for meritorious students
Health Care	<ul style="list-style-type: none">• Support or general and specialized health camps• Support to existing health facility• Support through mobile health care services• Support for emergency health care services

Focus Area	Nature of Activity
	<ul style="list-style-type: none"> • Awareness on Health and Hygiene
Infrastructure Development	<ul style="list-style-type: none"> • Support for strengthening existing roads • Support for existing transportation services • Support for Drinking Water facilities • Support in garbage collection/disposal • Support for Street Lighting facilities • Support for Community Toilet facilities
Skill Development and Training	<ul style="list-style-type: none"> • Skill Training of local youth for Job skills • Support for Vocational Training in market trades • Support for capacity building of local Teachers
Livelihood Enhancement for Job Opportunities	<ul style="list-style-type: none"> • Support to un-employed youth for small enterprises • Support to local youth for self-employment • Support to local women for household enterprises • Support to local artisans • Support for training and capacity building of local women
Environment Conservation and Protection Awareness	<ul style="list-style-type: none"> • Plantation along roads/open spaces/ community lands • Strengthening existing water resources • Awareness and Training on conservation of natural resources
Sports	<ul style="list-style-type: none"> • Support the local schools with play material and equipment • Support for local Anganwadi Centers with play equipment • Support for developing play grounds • Support the local sports events • Support the performing local sports persons
Agriculture and Animal Husbandry	<ul style="list-style-type: none"> • Support for natural farming /organic farming • Awareness and training on modern agricultural practices • Support for Veterinary services through Veterinary camps • Promote water efficiency Precision Agriculture
Rain Water Harvesting	<ul style="list-style-type: none"> • Construction of check dams and bunds. • Restoration of storage tanks • Support for drain water recovery and percolation ponds
Common Interest Activity	<ul style="list-style-type: none"> • Support for Community Infrastructure • Promoting local culture and traditions • Support for protection of local art forms • Support for protection of local heritage

5. CSER PLAN IMPLEMENTATION

For implementing the CSER Plan under the Pinnapuram IREP after a thorough understanding of the local context and stakeholders we are adopting a multi stakeholder partnership implementation model by integrating the development activity with more focus on education, health, environment and economic objectives of the local people. The Table 3 below provides the list of CSER activity implemented till September 2023.

Table 3: List of CSER Activity Completed and on-going till September 2023

SI No	Focus Area/ Activity	Details of Activity
A	EDUCATION	
1	Repair and renovation of existing Government Upper Primary School at Pinnapuram Village.	<ul style="list-style-type: none"> ● School Building repairs and renovation ● Painting for existing structures etc ● Providing Tables and Chairs ● Providing Classroom Desks ● Providing school bags and notebooks to students ● Construction Bio Toilet Facility ● Setting up of Drinking Water Cooler ● Compound walls construction ● School Compound wall repairs
2	To improve the quality education at Govt Schools	<ul style="list-style-type: none"> ● Provided 3 vidya volunteers continuously (Math's, Science and English subjects) at Pinnapuram School ● Provision of 1 School Teacher (Vidya Volunteers) to Gumtham Thanda Govt Mandal Primary School ● Provided 2 Vidya Volunteers continuously at Brahamanpalli School
3	Provide new amenities in the existing Anganwadi Centre at Pinnapuram Village	<ul style="list-style-type: none"> ● School Building repairs ● Painting for existing structures etc
4	Repair and renovation of existing Government Upper Primary School at Ondutla Village.	<ul style="list-style-type: none"> ● School Building repairs ● Painting for existing structures etc ● Providing Classroom Desks ● Providing school bags and notebooks to students ● Construction Bio Toilet Facility ● Setting up of Drinking Water Cooler

SI No	Focus Area/ Activity	Details of Activity
5	Repair and renovation of existing Government Primary School at Brahamanpalli Village.	<ul style="list-style-type: none"> • School Building repairs. • Construction of School compound wall and gate. • Painting for existing structures etc • Providing Classroom Desks • Setting up of Drinking Water Cooler
6	Providing class room infrastructure for the Govt MPP School at Brahamanpalli	<ul style="list-style-type: none"> • Provided Green Boards for Classrooms • Provided Computer and printer for digital classroom and learning
7	Development of Govt Primary School at Gumtham Thanda Village	<ul style="list-style-type: none"> • School Building repairs • Painting for existing structures etc • Providing Classroom Desks
8	Provide new amenities in the existing Anganwadi Centre at Brahamanapalli Village	<ul style="list-style-type: none"> • School Building repairs • Painting for existing structures etc • Tables and Chairs for kids
9	Provide new amenities in the existing Anganwadi Centre at Gumtham Thanda Village	<ul style="list-style-type: none"> • School Building repairs • Painting for existing structures etc • Tables and Chairs for kids
10	Provide teaching and learning material to existing Govt Schools at Pinnapuram and Ondutla Villages	<ul style="list-style-type: none"> • Providing Text books, Library books for children • Providing computers and Printers • Providing display charts, etc
B	HEALTH CARE	
1	Provide Mobile Health Clinic	<ul style="list-style-type: none"> • Provided a well-equipped Hospital on Wheels • Mobile Clinic with full time Doctor, Technician cum pharmacist • Conducted diagnostic tests • Mobile Clinic conducts medical camps. • Provided medicines for Rural community.
2	Conduct General and specialized Health camps and Provided infrastructure facility	<ul style="list-style-type: none"> • Conducted General health Camps • Conducted Eye Screening Camps • Provided spectacles for those who are needed. • Conducted Cancer Screening Camps for Pinapuram, Ondutla, GM Thanda, Bramhanapalli villages.

SI No	Focus Area/ Activity	Details of Activity
3	Covid-19 Mitigation Measures in local Villages	<ul style="list-style-type: none"> • Provided Hand sanitizer and dispenser for Personal hygiene in local Schools. • Provided snacks to children in the eve of Aug 15th and Jan 26th. • Established Oxygen plant at Govt General Hospital Kurnool for Covid pandemic period. • Provided 10 Oxygen cylinders and 04 concentrators to Govt General Hospital Kurnool & Nandyal for Covid patients .
C	INFRASTRUCTURE DEVELOPMENT	
1	Providing Drinking Water Facility with RO Plant and other Rural development activities at Pinnapuram , Village	<ul style="list-style-type: none"> • Constructed De Ionization RO Plantfor Drinking Water • Digging 3 borewells at distance of 3.5 kmsand laying pipeline to the Village • Maintenance of the RO Plant and bore well pipeline. • Provided Power connection for Bore well and RO plant • Paid Electrical Bill for RO plant and bore well motors. • Provided 500 water babbles for All households
2	Development of Burial ground.	<ul style="list-style-type: none"> • Provided Burial ground for villagers
3	Developing the existing approach roads	<ul style="list-style-type: none"> • Provided Rural approach roads for villagers and farms approach road
4	Improving the existing drinking water facility at Pinnapuram	<ul style="list-style-type: none"> • New borewell digging, laying of pipeline connection (Drinking Water Facility)
5	Rural development activities at Bramhanapalli & GM Thanda Villages	<ul style="list-style-type: none"> • Constructed De Ionization RO Plantfor Drinking Water • Digging 2 borewells at distance of 3.0 kmsand laying pipeline to the Village • Maintenance of the RO Plant and bore well pipeline. • Provided Power connection for Bore well and RO plant • Provided water bubbles botlles for All households for GM Thanda.
5	Repair/renovation of the existing drinking water resources in Pinnapuram	<ul style="list-style-type: none"> • Reconstruction of Open well • Provided Syntax Water tank • Provided Dhobi ghat for washing clothes
6	Laying of village level drinking water Pipelines	<ul style="list-style-type: none"> • New borewell digging, laying of pipeline connection (Drinking Water Facility)

SI No	Focus Area/ Activity	Details of Activity
7	Provided LED Street Lighting facility	<ul style="list-style-type: none"> • Provided LED Street lighting facility at Pinnapuram • Provided LED Street lighting facility at Gumtham Thanda • Provided LED Street lighting facility at Ondutla, LK thada, YK Thanda Brahamanpalli and GM Thanda
8	Solid waste management in Villages	<ul style="list-style-type: none"> • Providing financial support to the Gram Panchayat for collection of Garbage at Household Level
D	SKILL DEVELOPMENT AND TRAINING	
1	Skill Training for local un-employed youth	<ul style="list-style-type: none"> • Provided Skill Development Training to 25 youth at Skill Development Center at Gani for Solar installation and operation trade.
E	AGRICULTURE AND ANIMAL HUSBANDRY	
1	Construction of drinking water ponds for Livestock	<ul style="list-style-type: none"> • Constructed water ponds for Livestock (Sheep/Buffalos) at Pinnapuram village
2	Promote natural farming/ organic farming	<ul style="list-style-type: none"> • Sponsored training to local 200 farmers
3	Conduct Veterinary Camps for livestock	<ul style="list-style-type: none"> • Planned for conducting a veterinary camp in Pinnapuram Village
F	ENVIRONMENT	
1	Tree Plantation	<ul style="list-style-type: none"> • Plantation in available village level institutions (schools, religious places, offices etc.)
2	Nursery development and environment awareness.	<ul style="list-style-type: none"> • For developing nursery, manure preparation, environment awareness programmes.
G	COMMON INTEREST ACTIVITY	
1	Support for development of local Temples at Pinnapuram	<ul style="list-style-type: none"> • Support towards lighting and sound arrangements for SRI Rama temple at Pinnapuram
2	Support towards local Temples at Kalva	<ul style="list-style-type: none"> • Construction of Iron Shed with power supply for local Sri Durgamatha Temple at Kalva.
3	Community Hall at Pinnapuram	<ul style="list-style-type: none"> • Material Contribution for construction of community hall for villagers at Pinnapuram.
4	Community Hall at Brahamapalli	<ul style="list-style-type: none"> • Material Contribution for construction of community hall for Brahamanpalli Village .

Sl No	Focus Area/ Activity	Details of Activity
5	Support for local festivals	<ul style="list-style-type: none"> • Financial support to the Gramapanchayath for festival for cultural activity
H	SPORTS	
1	Provide sports material to local Schools, Anganwadi Centers and village youth	<ul style="list-style-type: none"> • Provided Sports Material to Upper Primary Schools at Pinnapuram and Ondutla • Provided Playing material for preschool children for joyful learning • Provided Playing material for preschool children for joyful learning at Brahamanpalli
2	Development of play grounds	<ul style="list-style-type: none"> • Developed new playground for village youth at Pinnapuram.
3	Sports kits for State level Kabaddi Players	<ul style="list-style-type: none"> • Provided Sports kits for Kabaddi 13 District players tournament at Orvakal • Provided 35 Kabaddi kits for State Kabaddi players.

Table 4: Amount spent towards Activity under CER Completed till Sept 2023

SI No	Focus Area	Name of the Activity/Program	Amount Spent (Rs)
A	Education	Infrastructure Development of Upper Primary School at Pinnapuram (Compound Wall, Repair and renovation, Painting, Classroom Infrastructure , Computers etc)	17,82,350
		Development of Upper Primary School at Ondutla	7,85,000
		Development of Primary School, Brahamanpalli	9,00,000
		Development of Anganwadi Center, Brahamanpalli	65,000
		Development of Primary School, Gumtham Thanda	2,66,000
		Development of Anganwadi Center, Gumtham Thanda	83,800
		Provision of 2 School Teacher (Vidya Volunteers) to Pinnapuram Govt Upper Primary School	3,80,000
		Provision of School Teacher (Vidya Volunteers) to Gumtham Thanda Govt Mandal Primary School	1,75,000
		Provision of School Teacher (Vidya Volunteers) to Brahamanpalli Mandal Primary School	1,75,000
		Providing Green Boards and Desktop Computers for MPP at Brahamanpalli School	1,20,000
		Sub Total	47,32,150
B	Health Care	General Medical Camp in 2018 at Primary School, Vundutla Village	29,000
		General Medical Camp in 2018 at Primary School, Pinnapuram Village	14,000
		Mobile Clinic - Expenses towards Medicines for conducting 78 numbers of Health Camps in a period of Two years for Pinnapuram, Kalva, Thippaipalli, Ondutla, Gumtham Thanda, Brahamanpalle Village	3,31,414
		Sub Total	3,74,414
C	Infrastructure Development	Establishment and Maintenance RO Plant for two years at Pinnapuram	25,00,000
		Drinking Water Supply through Water Tankers at Pinnapuram	8,00,000
		Open Well Renovation at Pinnapuram	6,00,000
		LED Street Lights at Pinnapuram	2,35,000
		Installation of LED Street Lights at Ondutla	1,65,000
		LED Street Lights at Brahamanapalli	1,20,000
		LED Street Lights at Gumtham Thanda	1,20,000
		Operation and Maintenance of RO Plant at Pinnapuram and Gumtham Thanda Village	5,20,000

SI No	Focus Area	Name of the Activity/Program	Amount Spent (Rs)
		Provision of 15 nos of Street lights in Sakunala village	75,000
		Drinking Water Pipeline Works from existing Borewell to School at Pinnapuram Village	1,50,000
		LED Street Lights to Gumtham Thanda Village	2,50,000
		Providing Drinking Water Bubbles to Pinnapuram and Gumtham Thanda Villagers	50,000
		New borewell digging, laying of pipeline connection (Drinking Water Facility)	18,10,900
		Water supply through Pipeline connection for every household in Jaganna Colony at Pinnapuram Village	12,69,000
		Sub Total	86,64,900
D	Skill Development and Training	Skill Development Training for youth of Pinnapuram	1,00,000
		Sub Total	1,00,000
E	Common Interest Activity	Support towards lighting and sound arrangements for SRI Rama temple at Pinnapuram	1,00,000
		Construction of Iron Shed with power supply for local Sri Durgamatha Temple at Kalva.	9,00,000
		Material Contribution for construction of community hall for villagers at Pinnapuram.	10,00,000
		Material Contribution for construction of community hall for Brahmanpalli Village.	8,00,000
		Providing Material support to the renovation of Mahalakshmi Temple at Kalva village	1,35,000
		Sub Total	29,35,000
F	Environmental Conservation	Cleaning of Handriniva Canal	10,00,000
		Sub Total	10,00,000
G	Sports	Developing the existing playground for Pinnapuram School children	3,50,000
		Provided Playing material for preschool children for joyful learning at Anganwadi Centers at Pinnapuram and Gumtham Thanda	12,500
		Providing sports kits (T-Shirts and other material) for State level Kabaddi Tournaments at Orvakal and Kurnool	5,00,000
		Sub Total	8,62,500

Sl No	Focus Area	Name of the Activity/Program	Amount Spent (Rs)
H	Agriculture and Animal Husbandry	Drinking Water Pond for Cattle at Pinnapuram	2,50,000
		Sub Total	2,50,000
		Gran Total (A+B+C+D+E+F+G+H)	1,89,18,964

6. CSER ACTIVITY AT A GLANCE

Infrastructure Development and other Support Activity at Government Upper Primary School at Pinnapuram Village



Infrastructure Development and other Support Activity at Government Upper Primary School at Ondulta Village



Health Care Services through Mobile Clinic at Pinnapuram and other Villages



Public Health: Organized health camps



Eye and Ear testing camps



Conducted First Aid Training



Conducted Health Camps at GM Thanda.



Blood donation Camps organized at GREENKO office

Drinking Water through RO Plant at Pinnapuram Village



Establishment of RO Plants at GM Thanada and Pinnapuram villages



Restoration of Open wells at Pinnapuram



Construction of Water Ponds for Livestock in Pinnapuram Village



Constructed Community Shed at Kalva village Temple



Drinking Water Pipeline Laying at Pinnapuram



Providing Material support to the Community Hall at Bramhanapalli:



Providing Material support to the Community Hall at Pinnapuram village:



Skill Development Training to local Youth from Project affected Villages at Greenko's Skill Development Centre at Gani Village



Promoting local Sports and Games



Promoting Organic Farming in local villages



Active coronavirus cases cross 1 lakh

State adds over 10,000 infections for sixth consecutive day, tests 56,490 samples in 24 hours

EXPRESS NEWS SERVICE @ Vijayawada

FOR the sixth day in a row, more than 10,000 fresh cases were reported, as the state's Covid-19 graph continued its steep spiral to reach 4,34,771 on Monday. Four districts contributed 1,000 new infections each.

Though recoveries have been on the higher side for the past few days, the spike of over 10,000 cases daily resulted in active cases crossing the one lakh-mark.

According to the latest bulletin by the State Command Control Room, 56,490 samples were tested in the 24 hours ending Monday 9 am, out of which 10,004 returned positive. Along with East Godavari, Nellore, Srikakulam and West Godavari too recorded over 1,000 new infections.

As many as 1,383 people tested positive in East Godavari in the 24 hours, followed by 1,142 in West Godavari, 1,086 in Nellore and 1,023 in Srikakulam district. Krishna district, with 159 new cases, saw the least spike. With 540 new cases, the tally in Vizianagaram district crossed 20,000; Nellore's cumulative cases breached the 30,000-mark.

With as many as 8,772 patients getting discharged from hospitals in the same period, the total recoveries climbed to 3.30 lakh, leaving 1,00,276 active cases.

Meanwhile, the death of another



Shielding themselves with face masks, people go about their business at APSRTC bus station in Tirupati on Monday | MADHAV K

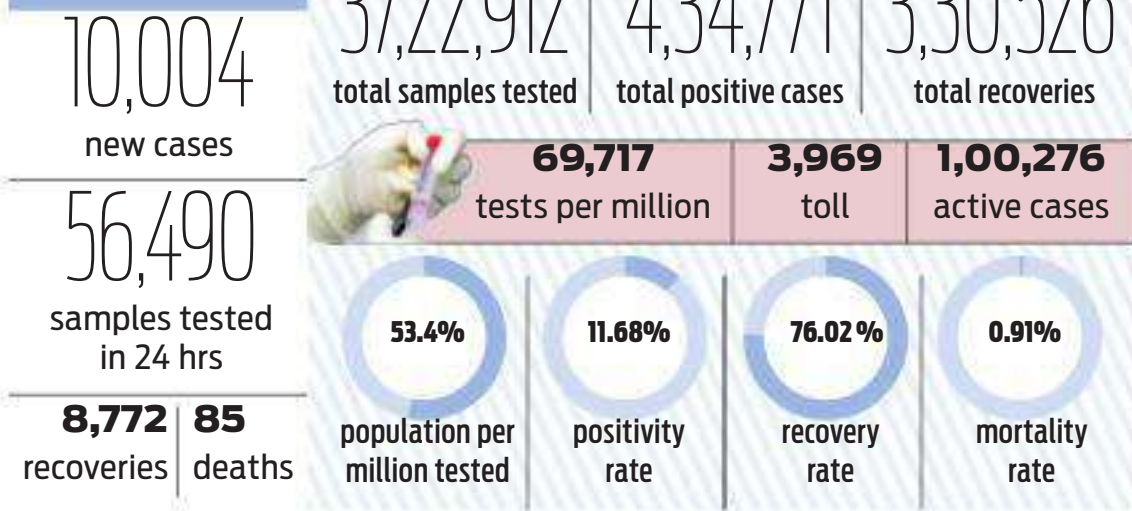
TRACKING STATE'S COVID DATA				
DISTRICT	New cases	Total cases	New deaths	Total deaths
Anantapur	973	41,128	7	330
Chittoor	936	36,649	9	415
East Godavari	1383	59,403	7	391
Guntur	498	35,761	7	376
Kadapa	420	26,119	8	220
Krishna	159	16,248	2	278
Kurnool	686	44,745	6	378
Nellore	1086	30,680	12	294
Prakasam	524	22,380	9	284
Srikakulam	1023	24,078	4	243
Visakhapatnam	634	36,694	6	289
Vizianagaram	540	20,999	1	164
West Godavari	1142	37,016	7	307
Other States	0	2,461	0	0
Other countries	0	434	0	0

85 patients in the state took the Covid toll in the state to 3,969.

In the 24 hours, Nellore reported the highest number of deaths (12), followed by nine each in Chittoor and Prakasam districts; eight in Kadapa; seven each in Anantapur, East Godavari, Guntur and West Godavari; six each in Kurnool and Visakhapatnam; four in Krishna, two in Vizianagaram and one in Vizianagaram district.

Chittoor district has seen most Covid deaths so far (415).

Viral watch



JEE: Expect staggered entry/exit at exam centres

A look at other guidelines

EXPRESS NEWS SERVICE @ Vijayawada

Candidates must fill self-declaration forms stating that they do not have any symptoms of Covid-19, have not travelled in the last 14 days and have not come in contact with any positive-tested person recently.

Once the exam finishes, they will have to exit the premises in a staggered manner

They will be given three-layered masks before entering the examination centre

All candidates will be checked for body temperatures

Separate isolation rooms for those with symptoms

WITH Joint Entrance Examination (JEE) Mains scheduled to start from Tuesday, candidates, this year, will have to follow some additional rules imposed in the wake of Covid-19.

The National Testing Agency (NTA), on the suggestions of the Ministries of Home Affairs and Health, has listed a few regulations with respect to physical distancing norm to be followed by students at exam centres.

Students have been given time slots to reach their respective centres so as to ensure that there is no crowding at entry points. Generally, the candidates are asked to arrive at their allotted centres half-an-hour before commencement of the examination. This time, they must reach during their allotted time slots beginning 8 am. Moreover, the exam will be conducted in two shifts—9 am to 12 pm and 3 pm to 6 pm. Parents/guardians have been instructed not to wait at the centres.

"Parents should leave the premises after dropping their wards. It is better if they wait outside the premises, not in groups but separately, for picking their kids after the exam ends," said NTA director general Dr. Vineet Joshi during a recent press meet. He said the total number of centres across the country have been increased to 660.



DY CM SAYS

Shops can be opened till 4 pm in Kadapa dist

EXPRESS NEWS SERVICE @ Kadapa

DEPUTY Chief Minister SB Amzad Basha sought people's cooperation to curb the spread of coronavirus in the district.

The Deputy CM, along with Sub-Collector Pridvi Tej, held a meeting with the task force committee here on Monday. Addressing the officials, Amzad Basha said the city reported 6,373 coronavirus cases so far. With the discharge of 3,853 persons, the city has now 2,449 active cases.

He said that due to relaxation in lockdown, shops can be opened till 4 pm. He directed the staff at PHCs to test 50 samples each every day. He praised Chief Minister YS Jagan Mohan Reddy for introducing Sanjeevani buses to conduct Covid-19 tests.

Amzad Basha instructed the officials to inform the public about the entire week's schedule of Sanjeevani buses. Covid-19 tests should be conducted on a priority basis to people above 60 years, he explained.

The Deputy CM said symptomatic persons below 40 years can stay in home isolation.

PUBLIC NOTICE

It is here by informed that my client Mr. M. Tyagaraju S/o Late M. Venkatappa has Lost/ misplaced his original link title deeds i.e., 3905 of 1999 and 849 of 1993 registered pertaining to All that the Plot No.22, admeasuring 240 sq.yds in survey No.243/2D, 243/2C and 243/2B after sub-division of the Sy.Nos.243/2B1A, 243/2C1A, 243/2D1A, 243/2D3B, situated at Thummalagunta Group of vedantapuram village Accounts, Thirupathi Rural Mandal, Thirupathi.

My Client has lodged a police complaint informing the loss to the concerned police station at East, Thirupathi and the concern Authority issued a Non Traceable Certificate dated 25.03.2015.

Further it is informed that, any person finding the above mentioned Title deed may return the same by way of registered post to the address given below or inform the undersigned by telephone, any person(s) having any objections, claims, right, lien, title over the said property may please contact the under signed within 15 days from the date of publication of this notice with relevant documents in support of their claim. As otherwise my client will proceed, treating no claims whatsoever in nature over the said property.

Sd/-

K.Ram Ratan Reddy

Advocate

#A4/B, Ground Floor,

Vikrampur Colony,

Secundrabad- 500 009.

Telangana

Cell: 9390399911 & 9393099911

Email: k3r.advocate@gmail.com

Lack of bookings hits hotels hard

EXPRESS NEWS SERVICE @ Tirupati

ALREADY unsettled by a pandemic, hospitality sector in the temple town is unlikely to see a revival anytime soon as bookings for hotels are still significantly low even several relaxations in restrictions later.

Pilgrims, both local and global, come to Tirupati to visit the Tirumala temple, and stay at two five-star, 16 three-star and 160 one-star hotels. However, a majority of the hotels are struggling to fill even 20-30 per cent of occupancy.

In off-season, occupancy is around 60-70 per cent, which increases to 85-90 per cent during Bramhotsavams. However, the pandemic has changed the situation. "A majority of single-star hotels are getting only five per cent occupancy even after the ease of restrictions. These establishments opened to almost no bookings as the pilgrimage is equally troublesome for employees," said Sasidhar, a member of Tirumala-Tirupati Hotels' Association, and demanded that the state government bail them out financially.

The average time a visiting family spends in the temple town is two days, during which they visit all major temples here.

Hotels here employ 3,000-3,500 cooks, electricians, service boys and others who work in similar roles.

"I have been working in the maintenance section of hotels for the last 15 years. I and other employees have not got our salaries for four months now. Despite that, the management is asking us to come back to work and it would be paying only half our salaries until the situation improves," said K Nagaraju.



A majority of single-star hotels are getting only five per cent occupancy even after the ease of restrictions. These establishments opened to almost no bookings as the pilgrimage

Sasidhar, a member of local hotels' assn

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Managing Director

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	B&W	CLR			B&W	CLR	
THE NEW INDIAN EXPRESS (All Editions)	4,200	5,290	7,350	8,050	4,200	2,350	2,940
THE MORNING STANDARD (New Delhi & NCR)	460	600	700	775	460	230	300
DINAMANI (All Editions)	1,400	1,690	2,100	2,450	1,400	660	840

■ F&C: Financial and Corporate ■ BP: Back Page ■ FP: Front Page ■ Appt: Appointment

For Details: Contact our nearest office

10K litre oxygen tank comes up

EXPRESS NEWS SERVICE @ Nellore

TO augment the availability of oxygen beds, a 10,000-litre liquid oxygen tank was installed on the premises of government general hospital (GGH) in Nellore. The GGH currently has 324 oxygen beds (150 in ICU unit and 196 in non-ICU unit).

Meanwhile, the district reported 1,086 coronavirus cases on Monday, pushing the count to 32,196. With the discharge of 24,143 persons so far, the district now has 8,053 active cases. The medical teams have so far collected 2,69,223 throat swab samples. It may be mentioned that there are 2,340 oxygen beds in Covid-19 hospitals across the district and 2,219 non-oxygen beds in Covid care centres. The district administration has procured sufficient number of oxygen cylinders to support patients.



No. J-12011/12/2018-1A-1 (R)

GOVERNMENT OF INDIA

Ministry of Environment, Forest & Climate Change (IA-I Division)

Indira Paryavaran Bhawan
3 rd Floor, Vayu Wing
Jor Bagh Road, New Delhi-3
Dated: 14th July, 2020

To
M/S Greenko Energies Private Limited
Plot No.1071, Road No. 44
Jubilee Hills, Hyderabad-500033
Telangana
Email id: envfor.irepap@greenkoenergyprojects.com

Sub: Pinnapuram Integrated RESP-Storage Project (1200 MW) in Tehsil Nandyal, District Kurnool, Andhra Pradesh by M/S Greenko Energies Private Limited regarding Environmental Clearance

Sir,

This has reference to your online proposal no. IA/AP/RIV/85218/2018 and your letter No. IREP/MoEF&CC/ EC/201811 13 dated 13.11.2018 on the above-mentioned subject.

- The above referred proposal was considered by the Expert Appraisal Committee (EAC) for River Valley & Hydroelectric projects in its 20th meeting held on 27.11.2018. The comments and observations of EAC on the project may be seen in the Minutes of the meeting which are available on the website of this Ministry.
- Pinnapuram IREP has been conceived as integrated project with solar, wind and pumped storage components. GoAP has approved the project with 1000 MW Solar, 550 MW Wind & 1200 MW of Standalone Pumped Storage capacities to be developed in Phase I. All three components of Pinnapuram IREP are in close vicinity of each other and therefore power from all three components will be pooled into common pooling station and will be connected to PGCIL/CTU sub-station at Orvakallu for further supply into the National Grid. Proposed Standalone Pumped Storage Project (1200MW) is a part of Pinnapuram Integrated Renewable Energy Project (IREP). Environmental Clearance is being sought for Standalone Pumped Storage component only. Proposed project ids located near Village Pinnapuram in Panyam Mandal District Kurnool of Andhra Pradesh.
- Terms of Reference (TOR) to Pinnapuram IREP of 1000 MW project was accorded by Ministry of Environment Forests and Climate Change (MoEF&CC), Government of India vide letter no. J-12011/12/2018-IA. I(R), dated: 17.05.2018. Subsequently, amendment to TOR for Standalone Pumped storage component (1200 M W) of Pinnapuram IREP project was accorded by this Ministry vide letter no. J-12011/12/2018-IA. I(R) dated 25.09.2018 for change in installed capacity, location, land, etc. Public hearing was held on 02.1.2018 near Mandal Panshad Upper Primary School, Pinnapuram, Panyam Mandal, Kurnool District, Andhra Pradesh. EIA report was submitted to the Ministry on 13.11.2018.
- Project Proponent (PP) submitted in the EIA report and as informed to the EAC in the 20th meeting that the project envisages creation of two new reservoirs near Pinnapuram village in Panyam Mandal, which is about 81 km from Kurnool, Andhra Pradesh. It involves non-consumptive re-utilization of 1.20 TMC of water to be taken from existing Gorakallu Reservoir to fill up Pinnapuram Upper reservoir. The Geographical coordinates of the proposed Pinnapuram upper reservoir are at longitude 78 0 15' 13" East and latitude is 15 0 36' 26" North and that of lower reservoir are 78 0 15 1 30" E and 15 0 37' 26" N. The full reservoir level and gross storage capacity of Upper reservoir are EL +463.00 m and 1.37 TMC, respectively whereas full reservoir level and gross storage capacity of Lower reservoir are EL +340.00 m and 1.42 TMC, respectively. The scheme envisages construction of Rock fill embankments of average height of around 12 m to 14 m with maximum of 33 m height in lower reservoir and 35 m in upper reservoir for very short reach; 45 m high RCC Intake structure; 6 Nos. of 760 m long and 7.0 m diameter inclined circular steel lined Penstock/ Pressure Shaft five for each unit of 200 MW and one bifurcated into two penstocks to feed two units of 100 MW; a surface Power house having an installation of 7 Nos. reversible Francis turbine - 5 each of 200 MW capacity and 2 each of 100 MW capacity, operating under a rated head of 119.27 m in generating mode and 125.77 m in pumping mode; 70 m wide concrete lined Tailrace channel with FSD of 6.00 m and 1300 m long connecting Tail race channel to the lower reservoir.
- PP submitted that for the development of Standalone Pumped Storage component of Pinnapuram IREP, land would be acquired for construction of project components, reservoir area, muck dumping, quarrying, construction camps and colony, etc. based on the final project layout, land requirement has been finalized as 713.65 ha. Online application for diversion of 365.66 ha of forestland has been submitted vide proposal No. FP/AP/HYD/35371/2018 dated 28.08.2018. The Ministry of Environment, Forest & Climate Change had issued in-principle approval for diversion of 365.66 Ha forestland for construction of pumped storage project in Kurnool Forest Division, Kurnool District of Andhra Pradesh in favour of M/S Greenko Energies Pvt. Limited on 23.04.2020.PP submitted that there is no National Park/ Wildlife Sanctuary within 10 km radius of the project area. Rollapadu Wildlife Sanctuary is about 11.50 Km from the Lower Reservoir area of the Pinnapuram IREP Project. Total cost of the 4 project is about Rs. 5468.03 Crores.
- Project benefits: Pinnapuram IREP has been conceived as integrated project with solar, wind and pumped storage components that can supply Schedulable Power on Demand (SPOD) which is Dispatchable & Schedulable Renewable Energy. The Project would facilitate employment creation for 2,350 people during construction (2,000) and operation (350).
- The proposal was earlier considered in the 20th EAC meeting on 27.11.2018. After detailed deliberations and considering all the facts of the project as presented by the PP including the Public Consultation, EAC has recommended the proposal for grant of Environmental Clearance. Accordingly, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification, 2006 and its subsequent amendments, subject to compliance of the Standard Environmental Conditions as enumerated in the Annexure I and following additional conditions: a

- Approval from Competent Authority for allocation of 1.2 TMC of water on a non-consumptive basis from the Gorakallu Reservoir shall be obtained.
- The Environmental Management Plan (EMP) shall be strictly adhered to as submitted in the EIA/EMP reports and a sum of Rs. 11839.55 lakhs, the budgetary provisions for implementation of EMP, shall be fully utilized and not to be diverted to any other purpose. In case of revision of the project cost or due to price level change, the cost of EMP shall also be updated proportionately.
- Investment of Rs 27.35 Crore under Corporate Environmental Responsibility (CER) shall be strictly utilized for the activities proposed as per the Ministry's office memorandum dated 01 st May- 2018. Activities proposed by the Project Proponent under CER includes provision to following focus area viz. education (200.00 lakhs) Health care (Rs.550.00 lakhs), Infrastructure development (Rs.425.00 lakhs), Skill Development and Training for improved job opportunities (Rs.1100.00 lakhs), Common Interest Activity (Rs.150.00 lakhs), Environment Conservation and Protection Awareness (Rs.15.00 lakhs), Sports (Rs.120.00 lakhs), Agriculture and Animal Husbandry (Rs.75.00 lakhs) and Rainwater Harvesting (Rs.100.00 lakhs) Under CER activities, preference should be given to strengthen the basic amenities in the project affected villages.
- The clearance is valid for period of 10 years from the date of issue of this letter for commissioning of the project.
- After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency, decided in consultation with the Ministry
- Solid waste generated, especially plastic waste, etc. should not be disposed of as landfill material. It should be treated with scientific approach and recycled. Use of plastics may be discouraged.
- Land acquired for the project shall be suitably compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
- Necessary permission to be obtained for quarrying construction materials for the project as per the ETA Notification, 2006 and subsequent amendments thereof.
- Preference to be given to the local villagers as per the requirements and suitability, in the job/ other opportunities in the project, etc.
- Measures to be taken to develop skills of the local villager, particularly with respect to the trades related to construction works such as electrician, welder, fitter, etc.
- All required permissions if any should be taken for the proposed Muck Dumping areas. Adequate protection measures should be taken up to avoid any spillage of muck to the adjoining agricultural fields.
- Under CER activities, preference should be given to strengthen the basic amenities in the project affected villages like maintaining drinking water supply, providing health care facilities, etc.
- Preference to be given to the local villagers as per the requirements and suitability, in the job/ other opportunities in the project.
- Measures to be taken to develop skills of the local villagers particularly with respect to the trades related to construction works such as electrician, welder, fitter, etc.
- Approval of Central Electricity Authority may be obtained for 1200 MW Pumped Storage Project.
- Any other clearances from any other organizations/departments as applicable to the project shall be obtained.

This has approval of the Competent Authority.

Yours faithfully,
(Dr A. Kerketta)
Director-IA.I

Greenko Energies Private Limited
(CIN: U40109TG2000FTC034990)

Greenko

Ref: IREP-Pinnapuram/SPCB/EC/200804

Dated: 04.08.2020

To,	
1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool
2	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
3	The District Revenue Officer & Additional District Magistrate, Kurnool District.
4	The General Manager, District Industries Center, Kurnool, Kurnool District.
5	The Executive Officer, Gram Panchayath Office, Pinnapuram (V), Panyam (M), Kurnool Dt.
6	The Executive Officer, Gram Panchayath Office, Brahmanapalle (V), Orvakal (M), Kurnool.
7	The Chief Executive Officer, Zilla Parishad, Kurnool.
8	The Tahsildar Office, Panyam (M), Kurnool District.

Sub: Pinnapuram Integrated RESP-Storage Project (1200 MW) in Kurnool District, Andhra Pradesh being implemented by M/s Greenko Energies Pvt. Ltd.- Display of Environmental Clearance (EC) - reg.

Ref: MoEF&CC letter No. J12011/12/2018.IA.I, Dated 14.07.2020.

Dear Sir,

We would also like to bring your kind notice that, the Ministry of Environment, Forest & Climate Change (MoEF & CC) had granted Environmental Clearance (EC) for construction of pumped storage project in Kurnool Forest Division, Kurnool District of Andhra Pradesh in favor of M/s Greenko Energies Pvt. Ltd (GEPL) vide letter dated - 14.07.2020.

As per the condition stipulated at ii of IX-Miscellaneous, Environmental Clearance shall be displayed at your office for information of the Public. Hence, the copy of Environmental Clearance issued to GEPL is herewith attached for display in your office notice board for a period of 30 days for information of the general public.

Thanking You,
Yours faithfully
For M/s Greenko Energies Private Limited

N. Govi Kumar

Authorised Signatory

Encl: As above



For: k



Dated: 04.08.2020

Ref: IREP-Pinnapuram/SPCB/EC/200804

To,			
1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool	✓	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
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Yours faithfully
For M/s Greenko Energies Private Limited

N. Govind Kumar

Authorised Signatory

Encl: As above



For: k. B.

Ref: IREP-Pinnapuram/SPCB/EC/200804

Dated: 04.08.2020

To,

1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool	2	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
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For M/s Greenko Energies Private Limited

N. Golu Kumar

Authorised Signatory

Encl: As above



Ref: IREP-Pinnapuram/SPCB/EC/200804

Dated: 04.08.2020

To,

1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool	2	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
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For M/s Greenko Energies Private Limited

N. Gowthama

Authorised Signatory

Encl: As above



For: k. [Signature]

జాతీయ గుమాస్తా,
విజ్ఞాన పరిశ్రమల కేంద్రము
కర్నూలు.

Ref: IREP-Pinnapuram/SPCB/EC/200804

Dated: 04.08.2020

To,

1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool	2	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
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Yours faithfully
For M/s Greenko Energies Private Limited

N. Govi Kumar

Authorised Signatory

Encl: As above



For: k. D.

*Copy Received by
P. S. Narayana Murthy
10/08/2020*

*పంచాయతీ కార్యదర్శి
గ్రామ పంచాయతీ
పాన్యం మండలము*

Ref: IREP-Pinnapuram/SPCB/EC/200804

Dated: 04.08.2020

To,

1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool	2	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
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For M/s Greenko Energies Private Limited

N. Gobi Kumar

Authorised Signatory

Encl: As above



Fan: to. By

V. Mandar
Panchayat Secretary
Brahmanapalli (V.),
Orvakal (M), Kurnool (D.)

Ref: IREP-Pinnapuram/SPCB/EC/200804

Dated: 04.08.2020

To,

1	Environmental Engineer A.P Pollution Control Board Regional Office, 1 st Floor, Shanker Shopping Complex, Krishna Nagar Main Gate, Kurnool	2	The Joint Chief Environmental Engineer, APPCB, Zonal Office, Kurnool.
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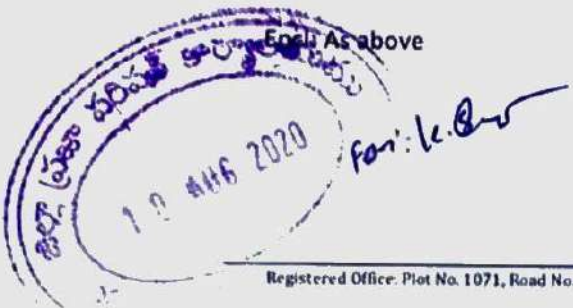
For M/s Greenko Energies Private Limited

N. Golu Kumar

Authorised Signatory



For: As above



Ref: IREP-Pinnapuram/SPCB/EC/200804

Dated: 04.08.2020

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For M/s Greenko Energies Private Limited

N. Gobi Kumar

Authorised Signatory

Encl: As above

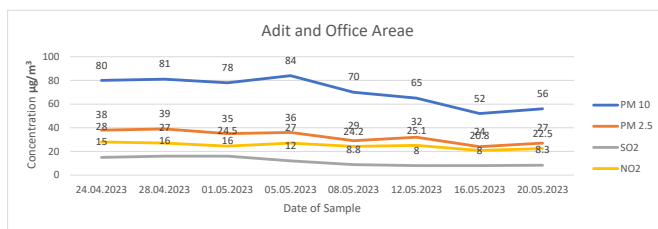


For: k. R.

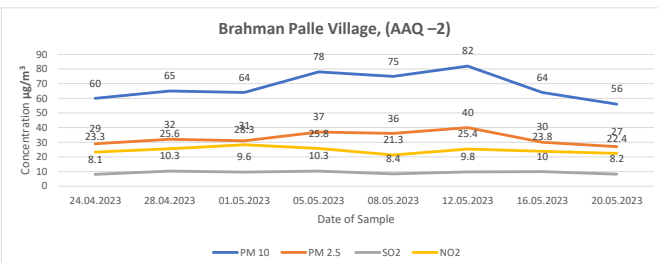
Air Quality Monitoring Trend Analysis For Season 1 (FY 2023-24)



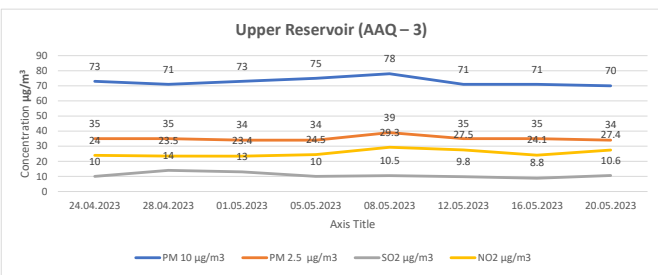
Sample Location		Adit and office area (AAQ -1)			
S.No	Date of Sampling	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1 st Week	24.04.2023	80	38	15	28
	28.04.2023	81	39	16	27
2 nd Week	01.05.2023	78	35	16	24.5
	05.05.2023	84	36	12	27
3 rd Week	08.05.2023	70	29	8.8	24.2
	12.05.2023	65	32	8	25.1
4 th Week	16.05.2023	52	24	8	20.8
	20.05.2023	56	27	8.3	22.5



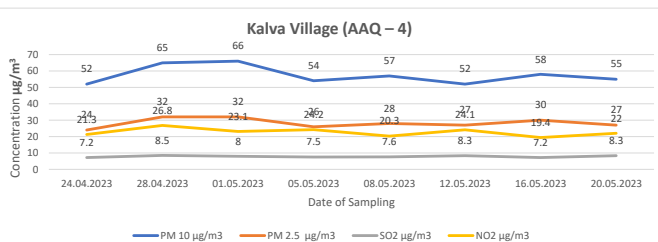
Sample Location		Brahman Palle village, (AAQ -2)			
S.No	Date of Sampling	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1 st Week	24.04.2023	60	29	8.1	23.3
	28.04.2023	65	32	10.3	25.6
2 nd Week	01.05.2023	64	31	9.6	28.3
	05.05.2023	78	37	10.3	25.8
3 rd Week	08.05.2023	75	36	8.4	21.3
	12.05.2023	82	40	9.8	25.4
4 th Week	16.05.2023	64	30	10	23.8
	20.05.2023	56	27	8.2	22.4



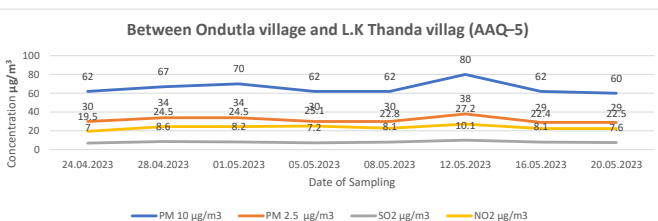
Sample Location		Upper reservoir (AAQ -3)			
S.No	Date of Sampling	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1 st Week	24.04.2023	73	35	10	24
	28.04.2023	71	35	14	23.5
2 nd Week	01.05.2023	73	34	13	23.4
	05.05.2023	75	34	10	24.5
3 rd Week	08.05.2023	78	39	10.5	29.3
	12.05.2023	71	35	9.8	27.5
4 th Week	16.05.2023	71	35	8.8	24.1
	20.05.2023	70	34	10.6	27.4



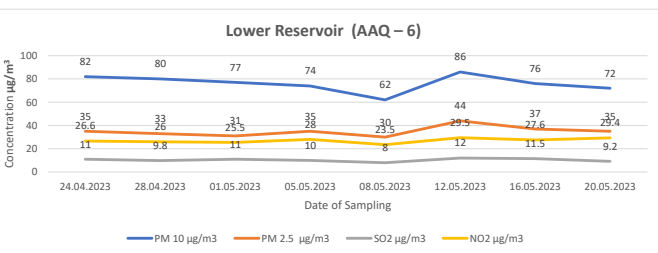
Sample Location		Kalva Village (AAQ -4)			
S.No	Date of Sampling	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1 st Week	24.04.2023	52	24	7.2	21.3
	28.04.2023	65	32	8.5	26.8
2 nd Week	01.05.2023	66	32	8	23.1
	05.05.2023	54	26	7.5	24.2
3 rd Week	08.05.2023	57	28	7.6	20.3
	12.05.2023	52	27	8.3	24.1
4 th Week	16.05.2023	58	30	7.2	19.4
	20.05.2023	55	27	8.3	22



Sample Location		Between Ondutla village and L.K Thanda village (AAQ -5)			
S.No	Date of Sampling	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1 st Week	24.04.2023	62	30	7	19.5
	28.04.2023	67	34	8.6	24.5
2 nd Week	01.05.2023	70	34	8.2	24.5
	05.05.2023	62	30	7.2	25.1
3 rd Week	08.05.2023	62	30	8.1	22.8
	12.05.2023	80	38	10.1	27.2
4 th Week	16.05.2023	62	29	8.1	22.4
	20.05.2023	60	29	7.6	22.5



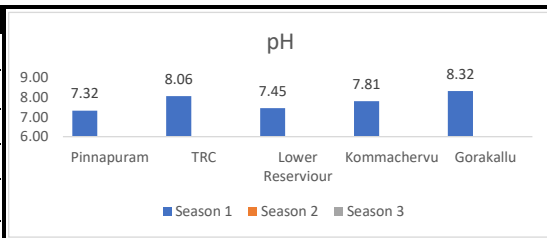
Sample Location		Lower reservoir			
S.No	Date of Sampling	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³
1 st Week	24.04.2023	82	35	11	26.6
	28.04.2023	80	33	9.8	26
2 nd Week	01.05.2023	77	31	11	25.5
	05.05.2023	74	35	10	28
3 rd Week	08.05.2023	62	30	8	23.5
	12.05.2023	86	44	12	29.5
4 th Week	16.05.2023	76	37	11.5	27.6
	20.05.2023	72	35	9.2	29.4



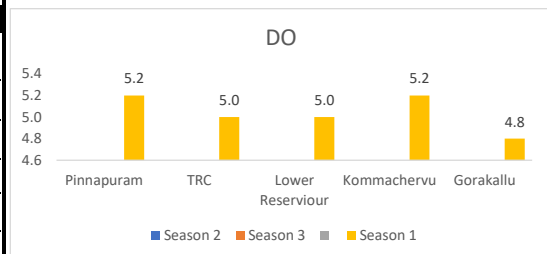


WATER QUALITY MONITORING RECORD OF SURFACE WATER (FY 23-24)

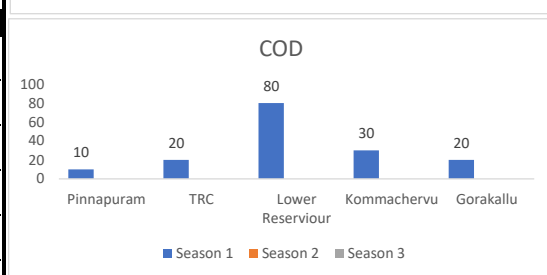
Location (pH)	Season 1	Season 2	Season 3
Pinnapuram	7.32		
TRC	8.06		
Lower Reservoir	7.45		
Kommachervu	7.81		
Gorakallu	8.32		



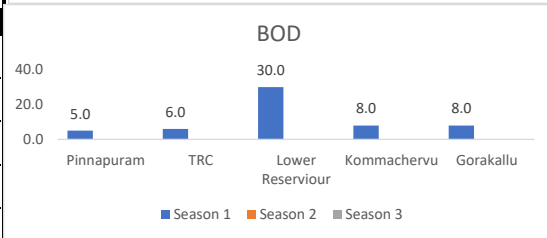
Location (DO)	Season 1	Season 2	Season 3
Pinnapuram	5.2		
TRC	5.0		
Lower Reservoir	5.0		
Kommachervu	5.2		
Gorakallu	4.8		



Location (COD)	Season 1	Season 2	Season 3
Pinnapuram	10		
TRC	20		
Lower Reservoir	80		
Kommachervu	30		
Gorakallu	20		

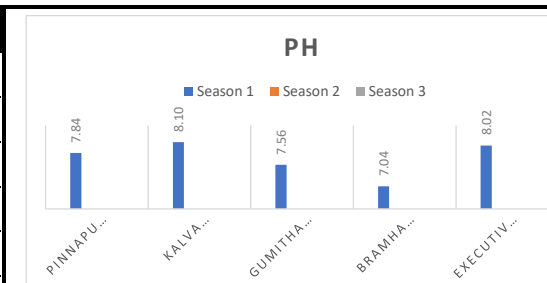


Location (BOD, 3days@27C)	Season 1	Season 2	Season 3
Pinnapuram	5.0		
TRC	6.0		
Lower Reservoir	30.0		
Kommachervu	8.0		
Gorakallu	8.0		

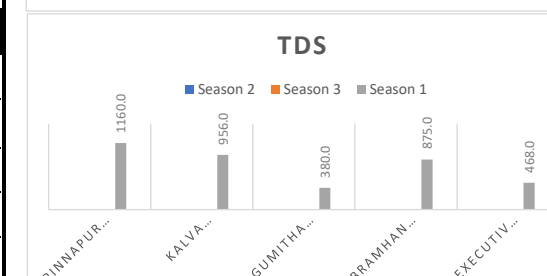


WATER QUALITY MONITORING RECORD OF GROUND WATER

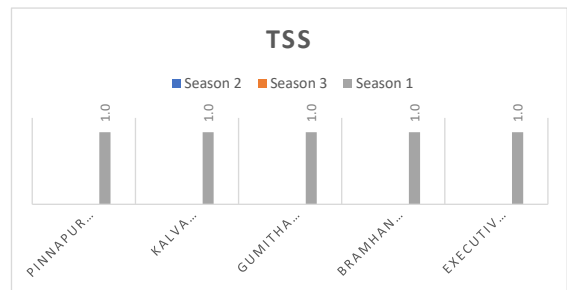
Location (pH)	Season 1	Season 2	Season 3
Pinnapuram	7.84		
Kalva village	8.10		
Gumitham mallikarjuna swamy temple and power	7.56		
Bramhanpally	7.04		
Executive Camp	8.02		



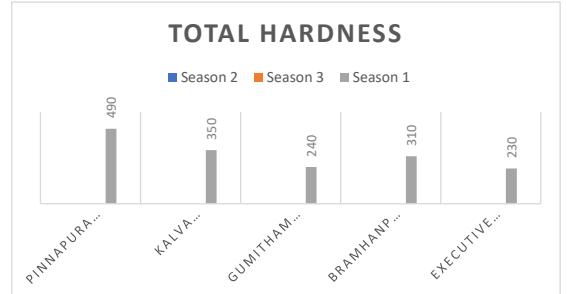
Location (TDS)	Season 1	Season 2	Season 3
Pinnapuram	1160.0		
Kalva village	956.0		
Gumitham mallikarjuna swamy temple and power	380.0		
Bramhanpally	875.0		
Executive Camp	468.0		



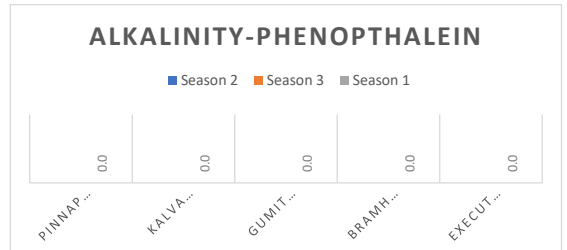
Location (TSS)	Season 1	Season 2	Season 3
Pinnapuram	1.0		
Kalva village	1.0		
Gumitham mallikarjuna swamy temple and power	1.0		
Bramhanpally	1.0		
Executive Camp	1.0		



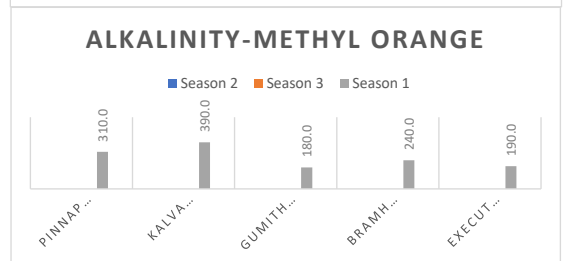
Location (Total Hardness)	Season 1	Season 2	Season 3
Pinnapuram	490		
Kalva village	350		
Gumitham mallikarjuna swamy temple and power	240		
Bramhanpally	310		
Executive Camp	230		



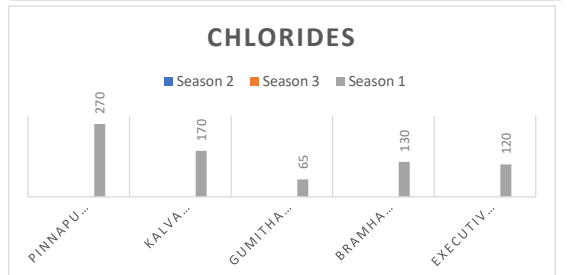
Location (Alkalinity-P)	Season 1	Season 2	Season 3
Pinnapuram	0.0		
Kalva village	0.0		
Gumitham mallikarjuna swamy temple and power	0.0		
Bramhanpally	0.0		
Executive Camp	0.0		



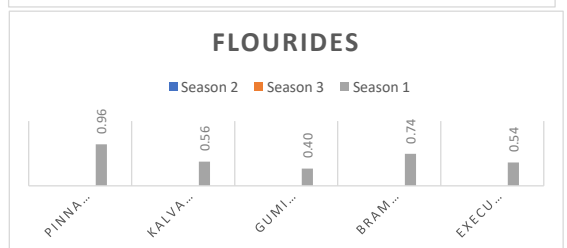
Location (Alkalinity-M)	Season 1	Season 2	Season 3
Pinnapuram	310.0		
Kalva village	390.0		
Gumitham mallikarjuna swamy temple and power	180.0		
Bramhanpally	240.0		
Executive Camp	190.0		



Location (Chloride)	Season 1	Season 2	Season 3
Pinnapuram	270		
Kalva village	170		
Gumitham mallikarjuna swamy temple and power	65		
Bramhanpally	130		
Executive Camp	120		



Location (Flouride)	Season 1	Season 2	Season 3
Pinnapuram	0.96		
Kalva village	0.56		
Gumitham mallikarjuna swamy temple and power	0.40		
Bramhanpally	0.74		
Executive Camp	0.54		



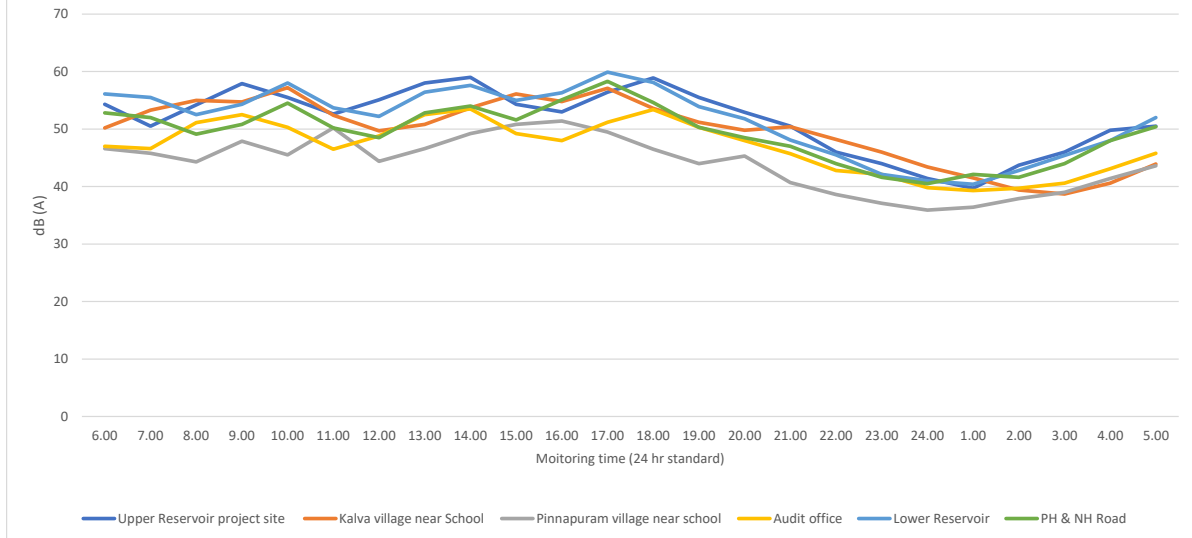


Noise Monitoring Trend Analysis For Season 1 (FY 2023-24)

01/05/2023 - 02/05/2023

S. NO	Monitoring Time	Upper Reservoir project site	Kalva village near School	Pinnapuram village near school	Audit office	Lower Reservoir	PH & NH Road
1	6.00	54.3	50.2	46.6	47	56.1	52.8
2	7.00	50.5	53.3	45.8	46.6	55.5	52
3	8.00	54.2	55	44.3	51.1	52.5	49.1
4	9.00	57.9	54.7	47.9	52.5	54.3	50.8
5	10.00	55.5	57.2	45.5	50.3	58	54.5
6	11.00	52.6	52.4	50.2	46.5	53.7	50.2
7	12.00	55.1	49.7	44.4	48.8	52.2	48.5
8	13.00	58	50.8	46.6	52.5	56.4	52.8
9	14.00	59	53.7	49.2	53.5	57.6	54
10	15.00	54.3	56.1	50.8	49.2	55	51.6
11	16.00	53	54.8	51.4	48	56.3	55.1
12	17.00	56.4	57.1	49.5	51.2	59.9	58.3
13	18.00	58.9	53.6	46.5	53.4	58.1	54.6
14	19.00	55.5	51.2	44	50.3	53.9	50.3
15	20.00	52.9	49.8	45.3	48	51.8	48.5
16	21.00	50.5	50.4	40.7	45.7	48.1	47
17	22.00	46	48.2	38.6	42.8	45.5	44
18	23.00	44	46	37.1	42.1	42.1	41.6
19	24.00	41.4	43.4	35.9	39.8	41	40.5
20	1.00	39.7	41.5	36.4	39.3	40.4	42.1
21	2.00	43.7	39.4	37.9	39.7	42.8	41.6
22	3.00	46	38.7	39	40.6	45.4	44
23	4.00	49.8	40.6	41.4	43.1	48	48
24	5.00	50.5	43.9	43.6	45.8	52	50.4

Noise Levels at different locations as monitored on 01/05/2023 - 02/05/2023

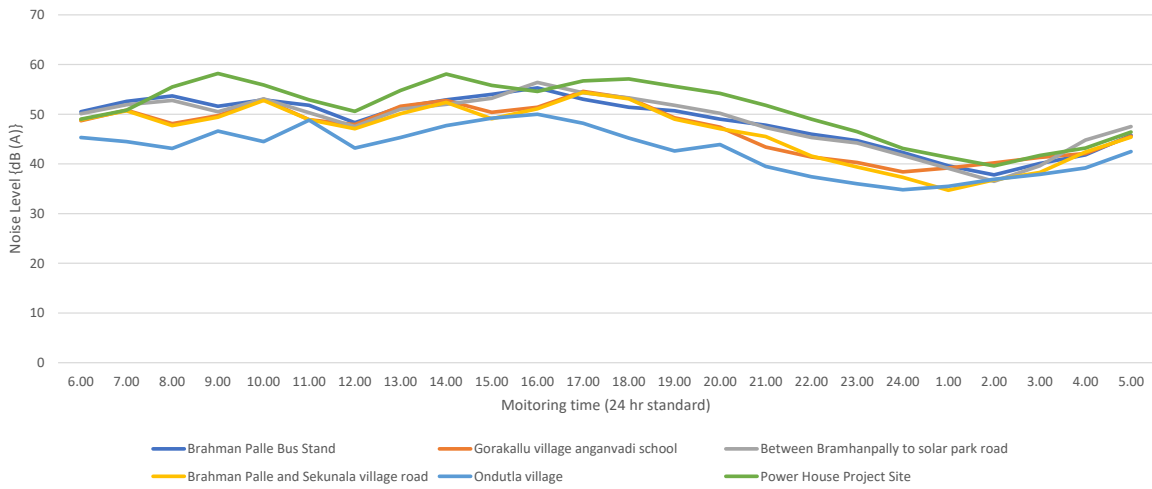




NOISE LEVEL MONITORING TREND ANALYSIS SEASON-1
05/05/23-06/05/23

S. NO	Monitoring Time	Brahman Palle Bus Stand	Gorakallu village anganvadi school	Between Bramhanpally to solar park road	Brahman Palle and Sekunala village road	Ondutla village	Power House Project Site
1	6.00	50.5	48.7	50.1	48.9	45.3	49
2	7.00	52.6	50.8	51.9	50.7	44.5	50.8
3	8.00	53.7	48.1	52.8	47.7	43.1	55.5
4	9.00	51.6	49.7	50.5	49.4	46.6	58.2
5	10.00	52.9	53	53.1	52.8	44.5	55.9
6	11.00	51.8	48.9	50.3	48.9	48.8	52.9
7	12.00	48.3	47.9	47.5	47.1	43.2	50.6
8	13.00	51.4	51.6	51	50.1	45.3	54.8
9	14.00	52.9	52.8	52	52.4	47.7	58.1
10	15.00	54	50.4	53.2	49.1	49.2	55.8
11	16.00	55.3	51.4	56.4	51.1	50	54.6
12	17.00	53	54.6	54.3	54.4	48.2	56.7
13	18.00	51.4	53.2	53.3	53.1	45.2	57.1
14	19.00	50.7	49.3	51.8	49	42.6	55.6
15	20.00	49	47.4	50.2	47.1	43.9	54.2
16	21.00	47.8	43.4	47.3	45.5	39.5	51.8
17	22.00	46	41.4	45.3	41.6	37.4	49
18	23.00	44.7	40.3	44.2	39.4	36	46.5
19	24.00	42.3	38.4	41.7	37.3	34.8	43.1
20	1.00	39.6	39.2	39.1	34.7	35.5	41.3
21	2.00	37.8	40.2	36.5	36.8	36.9	39.6
22	3.00	40.1	41.3	39.6	38.3	37.9	41.7
23	4.00	41.8	42.1	44.8	42.4	39.2	43.2
24	5.00	45.8	45.6	47.5	45.4	42.5	46.4

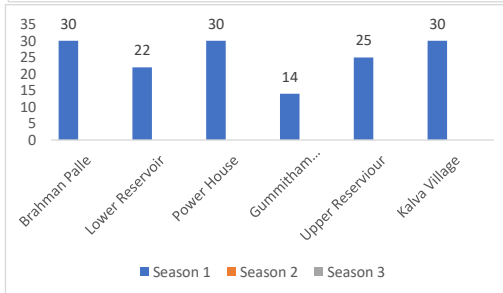
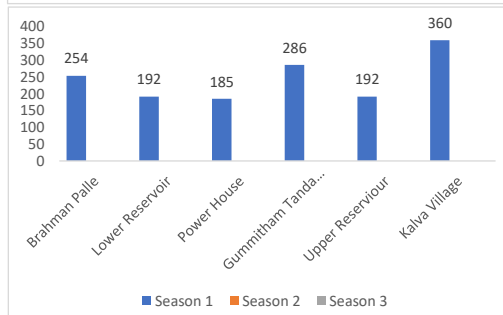
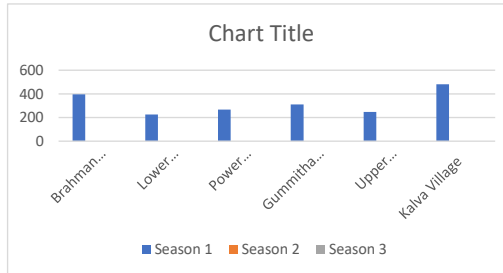
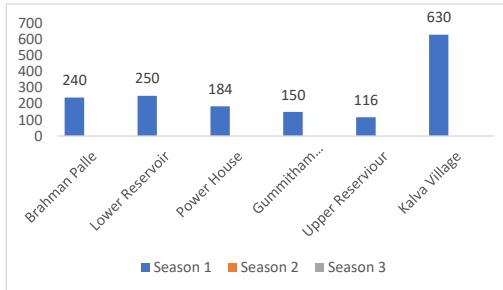
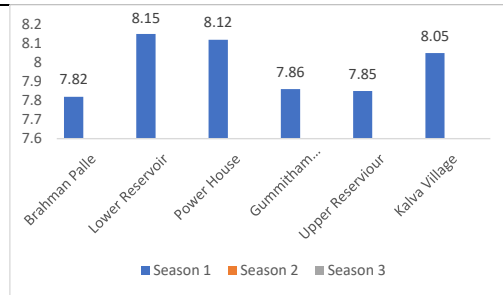
Noise Levels at different locations as monitored on 05/05/2023 - 06/05/2023





Soil Quality Graphical Representation For Season 1 (FY 2023-24)

Location (pH)	Season 1	Season 2	Season 3
Brahman Palle	7.82		
Lower Reservoir	8.15		
Power House	8.12		
Gummitham Tanda Village	7.86		
Upper Reservoir	7.85		
Kalva Village	8.05		
Location (Conductivity)	Season 1	Season 2	Season 3
Brahman Palle	240		
Lower Reservoir	250		
Power House	184		
Gummitham Tanda Village	150		
Upper Reservoir	116		
Kalva Village	630		
Location (Nitrogen as N)	Season 1	Season 2	Season 3
Brahman Palle	396		
Lower Reservoir	226		
Power House	268		
Gummitham Tanda Village	310		
Upper Reservoir	248		
Kalva Village	482		
Location (Potassium as K)	Season 1	Season 2	Season 3
Brahman Palle	254		
Lower Reservoir	192		
Power House	185		
Gummitham Tanda Village	286		
Upper Reservoir	192		
Kalva Village	360		
Location (Phosphorous as P)	Season 1	Season 2	Season 3
Brahman Palle	30		
Lower Reservoir	22		
Power House	30		
Gummitham Tanda Village	14		
Upper Reservoir	25		
Kalva Village	30		





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TEST REPORT


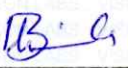
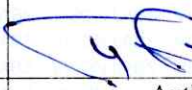
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	Our Ref No VL-202300008664
	Your Ref No GAP01/IREP/W.O./H.O/2021-22/060
	Your Ref Date 05.10.2021
Monitoring Location Bramhanapalle Village	
Sample collection date 01.05.2023 To 02.05.2023	Sample Description Ambient Air
Sample Registration date 03.05.2023	Sample(s) condition of testing Found Ok
Monitoring Time 08:40 am	Sample Quantity 2-Filter papers & 2 x 30 mL of Sample Bottles
Ambient Temperature °C 28 (Average)	Weather Condition Clear
Wind Direction N	Flow Rate of Gases (LPM) 0.20
Analysis Start date 03.05.2023	Analysis Completion Date 13.05.2023
Monitoring and Sampling done by Mr.M.Narsimlu on behalf of VISON LABS as per CPCB Guidelines	

TEST RESULTS

S.No.	Parameters	Units	Test Results	(NAAQS) Standards	Analysis Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	64	<100	Respirable Dust Sampler method (IS : 5182 P 23 - 2017)
2.	Particulate Matter (PM _{2.5})	µg/m ³	31	<60	VL/SOP/01/CPCB guidelines for the measurement of Ambient Air Pollutants, Vol. I
3.	Sulphur Dioxide (SO ₂)	µg/m ³	9.6	<80	Improved West and Geake method (IS : 5182 P II - 2017)
4.	Oxides of Nitrogen (NO ₂)	µg/m ³	28.3	<80	Jacob and Hochheiser modified (Na- Arsenite) method (IS : 5182 P VI - 2017)

Page 1 of 1

NOTE: - 1. Above tested results are well with the limits as per NAAQS (National Ambient Air Quality Standards)

 Checked by	 Sr. Chemist	 Authorized Signatory
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VL/QM/7. 8/TR

H.No. 16-11-23/37/A, Flat No. 205, 2nd Floor, Opp. R.T.A. Office, Musarambagh, Malakpet, Hyderabad - 500 036.
Tel : 040-24544320, 24541338, Mob : 98491 10019 / 94408 41338, E-mail : Info@visonlabs.com, vison.labs@gmail.com

NOTE : This Report is subject to the terms and conditions mentioned overleaf.



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	Our Ref No	VL-202300008665	
	Your Ref No	GAP01/IREP/W.O./H.O/2021-22/060	
	Your Ref Date	05.10.2021	
Monitoring Location	Lower Reservoir		
Sample collection date	01.05.2023 To 02.05.2023	Sample Description	Ambient Air
Sample Registration date	03.05.2023	Sample(s) condition of testing	Found Ok
Monitoring Time	09:00 am	Sample Quantity	2-Filter papers & 2 x 30 mL of Sample Bottles
Ambient Temperature °C	28 (Average)	Weather Condition	Clear
Wind Direction	N	Flow Rate of Gases (LPM)	0.20
Analysis Start date	03.05.2023	Analysis Completion Date	13.05.2023
Monitoring and Sampling done by Mr.M.Narsimlu on behalf of VISON LABS as per CPCB Guidelines			

TEST RESULTS

S.No.	Parameters	Units	Test Results	(NAAQS) Standards	Analysis Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	77	<100	Respirable Dust Sampler method (IS : 5182 P 23 - 2017)
2.	Particulate Matter (PM _{2.5})	µg/m ³	31	<60	VL/SOP/01/CPCB guidelines for the measurement of Ambient Air Pollutants, Vol. I
3.	Sulphur Dioxide (SO ₂)	µg/m ³	11	<80	Improved West and Geake method (IS : 5182 P II - 2017)
4.	Oxides of Nitrogen (NO ₂)	µg/m ³	25.5	<80	Jacob and Hochheiser modified (Na- Arsenite) method (IS : 5182 P VI - 2017)

Page 1 of 1

NOTE: - 1. Above tested results are well with the limits as per NAAQS (National Ambient Air Quality Standards)

Checked by	Sr. Chemist	Authorized Signatory



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Tel : 040-24544320, 24541338, Mob : 98491 10019 / 94408 41338, E-mail : Info@visonlabs.com, vison.labs@gmail.com

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	Our Ref No	VL-202300008666	
	Your Ref No	GAP01/IREP/W.O./H.O/2021-22/060	
	Your Ref Date	05.10.2021	
Monitoring Location	ADIT & Office Area		
Sample collection date	01.05.2023 To 02.05.2023	Sample Description	Ambient Air
Sample Registration date	03.05.2023	Sample(s) condition of testing	Found Ok
Monitoring Time	09:30 am	Sample Quantity	2-Filter papers & 2 x 30 mL of Sample Bottles
Ambient Temperature °C	28 (Average)	Weather Condition	Clear
Wind Direction	N	Flow Rate of Gases (LPM)	0.20
Analysis Start date	03.05.2023	Analysis Completion Date	13.05.2023
Monitoring and Sampling done by Mr.M.Narsimlu on behalf of VISON LABS as per CPCB Guidelines			

TEST RESULTS

S.No.	Parameters	Units	Test Results	(NAAQS) Standards	Analysis Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	78	<100	Respirable Dust Sampler method (IS : 5182 P 23 - 2017)
2.	Particulate Matter (PM _{2.5})	µg/m ³	35	<60	VL/SOP/01/CPCB guidelines for the measurement of Ambient Air Pollutants, Vol. I
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16	<80	Improved West and Geake method (IS : 5182 P II - 2017)
4.	Oxides of Nitrogen (NO ₂)	µg/m ³	24.5	<80	Jacob and Hochheiser modified (Na- Arsenite) method (IS : 5182 P VI - 2017)

Page 1 of 1

NOTE: - 1. Above tested results are well with the limits as per NAAQS (National Ambient Air Quality Standards)

Checked by	Sr. Chemist	Authorized Signatory



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Monitoring Location	Upper Reservoir		
Sample collection date	01.05.2023 To 02.05.2023	Sample Description	Ambient Air
Sample Registration date	03.05.2023	Sample(s) condition of testing	Found Ok
Monitoring Time	10:10 am	Sample Quantity	2-Filter papers & 2 x 30 mL of Sample Bottles
Ambient Temperature °C	28 (Average)	Weather Condition	Clear
Wind Direction	N	Flow Rate of Gases (LPM)	0.20
Analysis Start date	03.05.2023	Analysis Completion Date	13.05.2023
Monitoring and Sampling done by Mr.M.Narsimlu on behalf of VISON LABS as per CPCB Guidelines			

TEST RESULTS

S.No.	Parameters	Units	Test Results	(NAAQS) Standards	Analysis Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	73	<100	Respirable Dust Sampler method (IS : 5182 P 23 - 2017)
2.	Particulate Matter (PM _{2.5})	µg/m ³	34	<60	VL/SOP/01/CPCB guidelines for the measurement of Ambient Air Pollutants, Vol. I
3.	Sulphur Dioxide (SO ₂)	µg/m ³	13	<80	Improved West and Geake method (IS : 5182 P II - 2017)
4.	Oxides of Nitrogen (NO ₂)	µg/m ³	23.4	<80	Jacob and Hochheiser modified (Na- Arsenite) method (IS : 5182 P VI - 2017)

Page 1 of 1

NOTE: - 1. Above tested results are well with the limits as per NAAQS (National Ambient Air Quality Standards)

Checked by	Sr. Chemist	Authorized Signatory



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	Our Ref No VL-202300008668
	Your Ref No GAP01/IREP/W.O./H.O/2021-22/060
	Your Ref Date 05.10.2021
Monitoring Location Kalva Village	
Sample collection date 01.05.2023 To 02.05.2023	Sample Description Ambient Air
Sample Registration date 03.05.2023	Sample(s) condition of testing Found Ok
Monitoring Time 10:30 am	Sample Quantity 2-Filter papers & 2 x 30 mL of Sample Bottles
Ambient Temperature °C 28 (Average)	Weather Condition Clear
Wind Direction N	Flow Rate of Gases (LPM) 0.20
Analysis Start date 03.05.2023	Analysis Completion Date 13.05.2023
Monitoring and Sampling done by Mr.M.Narsimlu on behalf of VISON LABS as per CPCB Guidelines	

TEST RESULTS

S.No.	Parameters	Units	Test Results	(NAAQS) Standards	Analysis Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	66	<100	Respirable Dust Sampler method (IS : 5182 P 23 - 2017)
2.	Particulate Matter (PM _{2.5})	µg/m ³	32	<60	VL/SOP/01/CPCB guidelines for the measurement of Ambient Air Pollutants, Vol. I
3.	Sulphur Dioxide (SO ₂)	µg/m ³	8.0	<80	Improved West and Geake method (IS : 5182 P II - 2017)
4.	Oxides of Nitrogen (NO ₂)	µg/m ³	23.1	<80	Jacob and Hochheiser modified (Na- Arsenite) method (IS : 5182 P VI - 2017)

Page 1 of 1

NOTE: - 1. Above tested results are well with the limits as per NAAQS (National Ambient Air Quality Standards)

Checked by	Sr. Chemist	Authorized Signatory



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TEST REPORT

Issued to: M/s. Greenko Energies Private Limited. Plot No. 1366, Road No. 45, Jubilee Hills, Hyderabad – 500 033, Telangana. Site: Greenko AP01 IREP Private Limited. Pinnapuram Village, Kurnool district, Andhra Pradesh-518 112.	Issued Date	15.05.2023	
	Our Ref No	VL-202300008669	
	Your Ref No	GAP01/IREP/W.O./H.O/2021-22/060	
	Your Ref Date	05.10.2021	
Monitoring Location	Between Ondutla & L.K Thanda Village		
Sample collection date	01.05.2023 To 02.05.2023	Sample Description	Ambient Air
Sample Registration date	03.05.2023	Sample(s) condition of testing	Found Ok
Monitoring Time	11:00 am	Sample Quantity	2-Filter papers & 2 x 30 mL of Sample Bottles
Ambient Temperature °C	28 (Average)	Weather Condition	Clear
Wind Direction	N	Flow Rate of Gases (LPM)	0.20
Analysis Start date	03.05.2023	Analysis Completion Date	13.05.2023
Monitoring and Sampling done by Mr.M.Narsimlu on behalf of VISON LABS as per CPCB Guidelines			

TEST RESULTS

S.No.	Parameters	Units	Test Results	(NAAQS) Standards	Analysis Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	70	<100	Respirable Dust Sampler method (IS : 5182 P 23 - 2017)
2.	Particulate Matter (PM _{2.5})	µg/m ³	34	<60	VL/SOP/01/CPCB guidelines for the measurement of Ambient Air Pollutants, Vol. I
3.	Sulphur Dioxide (SO ₂)	µg/m ³	8.2	<80	Improved West and Geake method (IS : 5182 P II - 2017)
4.	Oxides of Nitrogen (NO ₂)	µg/m ³	24.5	<80	Jacob and Hochheiser modified (Na- Arsenite) method (IS : 5182 P VI - 2017)

Page 1 of 1

NOTE: - 1. Above tested results are well with the limits as per NAAQS (National Ambient Air Quality Standards)

Checked by	Sr. Chemist	Authorized Signatory Quality Hyderabad

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	Our Ref No	VL-202300008670	
	Your Ref No	GAP01/IREP/W.O./H.O/2021-22/060	
	Your Ref Date	05.10.2021	
Date of Monitoring	01.05.2023-02.05.2023	Date of Registration	03.05.2023
Monitoring conducted by VISON LABS			

Total Average Results
Units: dB (A)

S.NO	Monitoring Time	Kalva Village Near School	Between NH to PH Road	Audit Office	Upper Reservoir Project site	Lower Reservoir Project site	Pinnapuram Village Near School
1.	06.00	50.2	52.8	47.0	54.3	56.1	46.6
2.	07.00	53.3	52.0	46.6	50.5	55.5	45.8
3.	08.00	55.0	49.1	51.1	54.2	52.5	44.3
4.	09.00	54.7	50.8	52.5	57.9	54.3	47.9
5.	10.00	57.2	54.5	50.3	55.5	58.0	45.5
6.	11.00	52.4	50.2	46.5	52.6	53.7	50.2
7.	12.00	49.7	48.5	48.8	55.1	52.2	44.4
8.	13.00	50.8	52.8	52.5	58.0	56.4	46.6
9.	14.00	53.7	54.0	53.5	59.0	57.6	49.2
10.	15.00	56.1	51.6	49.2	54.3	55.0	50.8
11.	16.00	54.8	55.1	48.0	53.0	56.3	51.4
12.	17.00	57.1	58.3	51.2	56.4	59.9	49.5
13.	18.00	53.6	54.6	53.4	58.9	58.1	46.5
14.	19.00	51.2	50.3	50.3	55.5	53.9	44.0
15.	20.00	49.8	48.5	48.0	52.9	51.8	45.3
16.	21.00	50.4	47.0	45.7	50.5	48.1	40.7
17.	22.00	48.2	44.0	42.8	46.0	45.5	38.6
18.	23.00	46.0	41.6	42.1	44.0	42.1	37.1
19.	24.00	43.4	40.5	39.8	41.4	41.0	35.9
20.	01.00	41.5	42.1	39.3	39.7	40.4	36.4
21.	02.00	39.4	41.6	39.7	43.7	42.8	37.9
22.	03.00	38.7	44.0	40.6	46.0	45.4	39.0
23.	04.00	40.6	48.0	43.1	49.8	48.0	41.4
24.	05.00	43.9	51.4	45.8	50.5	52.0	43.6

Summary of the results

Name of location	Category	Leq day dB(A)	Leq Night dB(A)	CPCB Standards	
				Day Time	Night Time
Kalva Village Near School	Residential	53.7	43.8	55	45
Between NH to PH Road	Residential	52.8	45.9	55	45
Audit Office	Residential	50.3	42.2	55	45
Upper Reservoir Project site	Residential	55.6	46.5	55	45
Lower Reservoir Project site	Residential	55.8	46.4	55	45
Pinnapuram Village Near School	Residential	47.6	39.5	55	45

Page 1 of 1

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	Our Ref No	VL-202300008891	
	Your Ref No	GAP01/IREP/W.O./H.O/2021-22/060	
	Your Ref Date	05.10.2021	
Date of Monitoring	05.05.2023-06.05.2023	Date of Registration	08.05.2023
Monitoring conducted by VISON LABS			

Total Average Results
Units: dB (A)

S.NO	Monitoring Time	Power House	Brahman Palle & Sekunala Village Road	Brahman Palle Bustop	Between Bramhanpally to Solar Park Road	Gorakallu Village Anganvadi School	Ondutla Village
1.	06.00	49.0	48.9	50.5	50.1	48.7	45.3
2.	07.00	50.8	50.7	52.6	51.9	50.8	44.5
3.	08.00	55.5	47.7	53.7	52.8	48.1	43.1
4.	09.00	58.2	49.4	51.6	50.5	49.7	46.6
5.	10.00	55.9	52.8	52.9	53.1	53.0	44.5
6.	11.00	52.9	48.9	51.8	50.3	48.9	48.8
7.	12.00	50.6	47.1	48.3	47.5	47.9	43.2
8.	13.00	54.8	50.1	51.4	51.0	51.6	45.3
9.	14.00	58.1	52.4	52.9	52.0	52.8	47.7
10.	15.00	55.8	49.1	54.0	53.2	50.4	49.2
11.	16.00	54.6	51.1	55.3	56.4	51.4	50.0
12.	17.00	56.7	54.4	53.0	54.3	54.6	48.2
13.	18.00	57.1	53.1	51.4	53.3	53.2	45.2
14.	19.00	55.6	49.0	50.7	51.8	49.3	42.6
15.	20.00	54.2	47.1	49.0	50.2	47.4	43.9
16.	21.00	51.8	45.5	47.8	47.3	43.4	39.5
17.	22.00	49.0	41.6	46.0	45.3	41.4	37.4
18.	23.00	46.5	39.4	44.7	44.2	40.3	36.0
19.	24.00	43.1	37.3	42.3	41.7	38.4	34.8
20.	01.00	41.3	34.7	39.6	39.1	39.2	35.5
21.	02.00	39.6	36.8	37.8	36.5	40.2	36.9
22.	03.00	41.7	38.3	40.1	39.6	41.3	37.9
23.	04.00	43.2	42.4	41.8	44.8	42.1	39.2
24.	05.00	46.4	45.4	45.8	47.5	45.6	42.5

Summary of the results

Name of location	Category	Leq day dB(A)	Leq Night dB(A)	CPCB Standards	
				Day Time	Night Time
Power House	Residential	55.1	44.9	55	45
Brahman Palle & Sekunala Village Road	Residential	50.4	40.8	55	45
Brahman Palle Bustop	Residential	52.0	43.1	55	45
Between Bramhanpally to Solar Park Road	Residential	52.1	43.6	55	45
Gorakallu Village Anganvadi School	Residential	50.8	41.6	55	45
Ondutla Village	Residential	46.2	38.2	55	45

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		Our Ref No	VL-202300008896
		Your Ref. No.	GAP01/IREP/W.O./H.O/2021-22/060
		Date	05.10.2021
Sample description	Bore Well Water Collected at Executive Camp	Sample condition at time of registration	Found Ok
Appearance of the Sample	Clear Liquid	Mode of Packing	Pet bottle
Environmental Conditions at the time of Sampling (Tem/RH)		26.9°C/56%	
Sample Collection Date	06.05.2023	Sample Quantity	1 ltr
Sample Registration date	08.05.2023	Date of Analysis	08.05.2023
Sample Collection Time	12:20 pm	Analysis Completion date	14.05.2023
Sampling done by Mr. M. Mahesh on behalf VISON LABS as per VL/SOP/C/53 for Chemical Analysis			

TEST RESULTS

S. No	Parameters	Units of Measurement	Test Method	Test Results	Drinking Water Limits As per IS: 10500: 2012	
					Acceptable Limits	Permissible limits in absence of alternative Source
1.	pH at 25°C	--	IS:3025 part 11 :2022	8.02	6.50 – 8.50	No relaxation
2.	Total Dissolved Solids	mg/L	IS: 3025 Part 16 :2023	468	500 max	2000 max
3.	Total Suspended Solids	mg/L	IS 3025 Part 17 1984, RA-2022	<1.0	--	--
4.	Total Hardness as CaCO ₃	mg/L	IS: 3025 Part 21 2009, RA-2019	230	200 max	600 max
5.	Alkalinity – Phenolphthalein	mg/L	IS: 3025 Part 23 1986, RA-2019	Nil	--	--
6.	Alkalinity – Methyl Orange	mg/L	IS: 3025 Part 23 1986, RA-2019	190	200 max	600 max
7.	Chloride as Cl	mg/L	IS: 3025 Part 32 1988, RA-2019	120	250 max	1000 max
8.	Fluoride as F	mg/L	APHA 4500 F D 24 th Edition	0.54	1.0 max	1.5 max

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		Our Ref No	VL-202300008899
		Your Ref No	GAP01/IREP/W.O./H.O/2021-22/060
		Your Ref Date	05.10.2021
Sample Description	Surface Water Collected at Lower Reservoir Water	Sample condition at time of registration	Found Ok
Appearance of the Sample	Clear liquid	Mode of Packing	Pet bottle
Environmental Conditions at the time of Sampling (Tem/RH)		29.2°C/57%	
Sample Collection Date	06.05.2023	Sample Quantity	1 ltr
Sample Registration Date	08.05.2023	Date of Analysis	08.05.2023
Sample Collection Time	02:00 pm	Analysis Completion date	14.05.2023
Sampling done by Mr. M. Mahesh on behalf VISON LABS as per VL/SOP/C/53 for Chemical Analysis			

TEST RESULTS

S.No.	Parameters	Units of Measurement	Test Method	Results	Limits as Per As per IS: 2296 Class C
1.	pH @25°C	--	IS:3025 Part 11 :2022	7.45	6.5-8.5
2.	Dissolved Oxygen	mg/L	IS 3025 Part 38 : 2009, RA-2019	5.0	>4.0
3.	Chemical Oxygen Demand	mg/L	IS 3025 Part 58 2006, RA-2017	80	--
4.	Biological Oxygen Demand (3 Days For 27°C)	mg/L	IS 3025 Part 44:2023	30	<3.0

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Checked by	Sr. Chemist	Authorized Signatory



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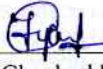
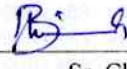

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	Our Ref No	VL-202300008903	
	Your Ref No	GAP01/IREP/W.O./H.O/2021-22/060	
	Your Ref Date	05.10.2021	
Sample Particulars	Soil Sample Collected at Lower Reservoir Project Site		
Sample Collection Date	06.05.2023	Sample Registration Date	08.05.2023
Analysis Start Date	08.05.2023	Completion Date	14.05.2023
Sampling done by VISON LABS			

TEST RESULTS

S. No.	Parameters	UNITS	TEST METHOD	Test Results	SOIL SPECIFICATIONS
1.	pH @25 °C (20 % Slurry)	--	IS 2720 Part-26 1987,RA-2011	8.15	6.50 - 8.50
2.	Conductivity @25 °C (20 % Slurry)	µS/cm	IS 14767:2000, RA-2010	250	--
3.	Nitrogen as N	mg/kg	IS 14684:1999,RA-2008	226	--
4.	Potassium as K	mg/kg	FAO Method (Page 77):2007	192	150-800
5.	Phosphorus as P	mg/kg	FAO Method (Page 75):2007	22	10 - 45

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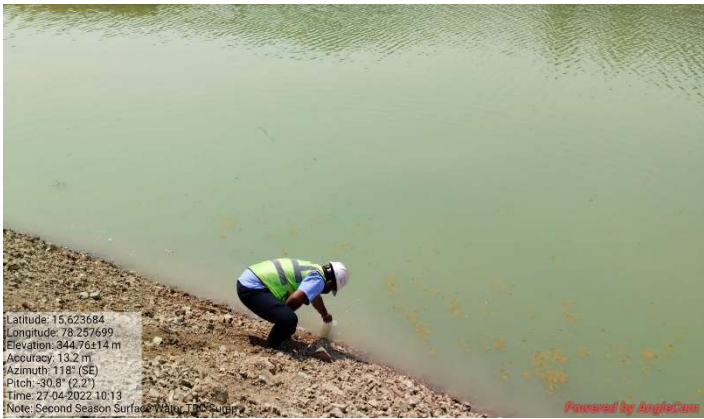
PHOTOS OF MONITORING ACTIVITIES

AIR MONITORING'S:



WATER MONITORING:

SURFACE WATER



GROUND WATER



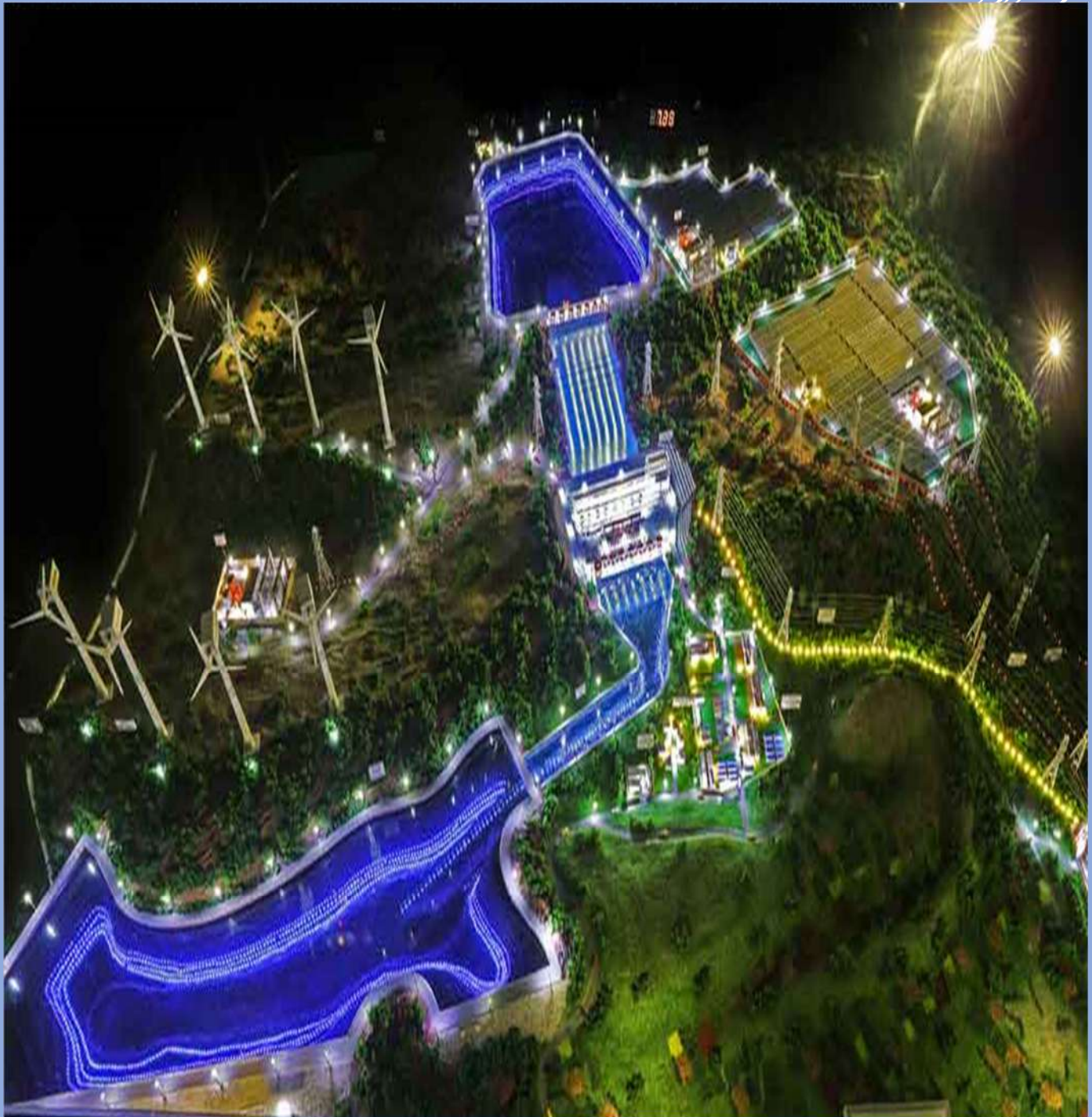
NOISE MONITORING'S





SOIL MONITORING'S





EMERGENCY RESPONSE CUM DISASTER MANAGEMENT PLAN

Greenko AP01 IREP Pvt. Ltd.- Pinnapuram




EMERGENCY RESPONSE CUM DISASTER MANAGEMENT PLAN

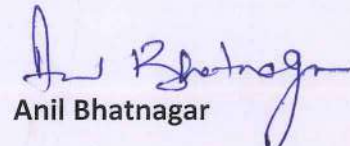
(Greenko AP01 – IREP PINNAPURAM)

Prepared by:


G V N Raju

Reviewed by:


A Srinivas Naidu


Anil Bhatnagar

Approved by:


Ch Srinivasa Rao

Issue & Rev. No. and Effective Date	Description	Sections Affected	Revised By	Controlled by
I1.R0/08.02.2022	Emergency Response Cum Disaster Management Plan	NA	--	GIMS

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REVISION No.	00	DATE OF REVISION			Page 1 of 59

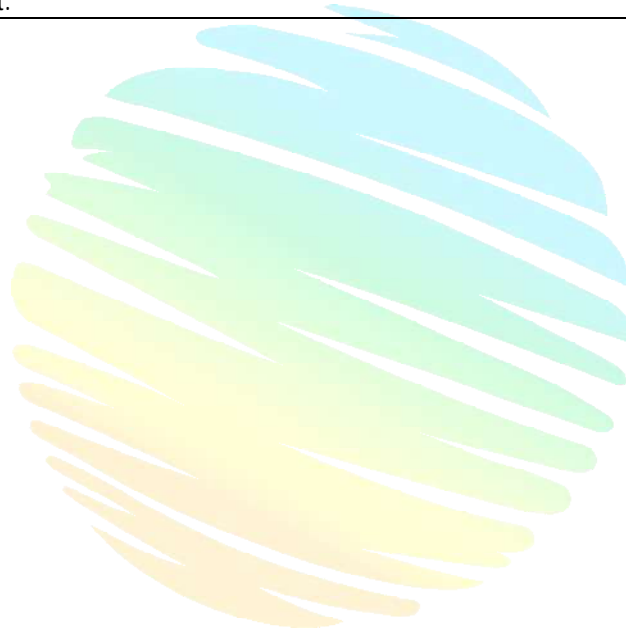
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AP01-IREP EMERGENCY RESPONSE CUM DISASTER MANAGEMENT PLAN

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1. INTRODUCTION

Greenko AP01 IREP Pvt. Ltd Project is situated at Pinnapuram (V), Panyam (M), Kurnool (Dist.) of Andhra Pradesh and the Project Specified as pumped storage project it envisages creation of 2 new off-stream reservoirs near Pinnapuram village along with critical component structures. The scheme will involve construction of 45.0m high Concrete Gravity Intake structure for 200m long and non-overflow rock fill embankment of average height around 12m to 14m and with maximum height of 35m short reach for formation of upper reservoir of 1.37 TMC gross capacity. The lower reservoir is formed with rock fill embankment of average height around 12m to 14m with maximum height of 33m for short reach of 1.42 TMC gross capacity. One-time water will be pumped from existing Gorakallu Reservoir to fill up the Upper reservoir. The total design discharge for the proposed scheme is 1162.85 Cumecs with the rated head of 119.27 m. Emergency Preparedness and Response plan is prepared to protect the public health, Safety, and environment on and off the Project site in the case of a major natural disaster or industrial accident relating to or affecting the Project. IREP project site prepared this document and will be responsible for implementing the same with its construction team in coordination with the local emergency response support functions. The document will describe the emergency response procedures to be implemented during various emergency situations that may affect the Project or the surrounding community or environment.

2. SCOPE

This procedure shall be applicable for all situations that could generate emergency situations during the Project construction phase and is applicable to all Employees, Contractors, Sub-Contractors, and other interested parties. To improve State of preparedness to meet any contingency, reduce response time in organizing the assistance, to identify major resources, work force, material & equipment needed to make the plan operational and making optimum use of the combined resources.

3. DEFINITIONS

Emergency: An emergency means a situation arising out of or as a result of any type of hazards like fire, explosion, uncontrolled gas release, or chemical spill which is likely to adversely affect the persons or population working on or near the site or residing in the adjacent or nearby areas around the work site.

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AP01-IREP EMERGENCY RESPONSE CUM DISASTER MANAGEMENT PLAN

Disaster: A disaster is defined as a "sudden or great misfortune" or simply "any unfortunate event." More precisely, a disaster is "an event whose timing is unexpected and whose consequences are seriously destructive.

Hazard: Source with a potential to cause injury and ill health.

Note 1: Hazards can include sources with the potential to cause harm or hazardous situations, or circumstances with the potential for exposure leading to injury and ill health.

Hazard identification: Process of recognizing that a hazard exists and defining its characteristics with an Incident / Event that gave rise to an Incident or had the potential to lead to an Incident.

Risk: Effect of uncertainty.

Occupational Health and Safety risk (OH&S risk): Combination of the likelihood of occurrence of a work-related hazardous event(s) or exposure(s) and the severity of injury and ill health that can be caused by the event(s) or exposure(s)

Sub Agency/ Contractors: This Special Purpose Vehicle (SPV) is directly owned by Greenko Group and it will undertake activities on behalf of Greenko Group.

Emergency Coordinator: The Area Manager, designated alternate members, Engineer's, Service person in charge of Project who will be available during any of site emergencies.

Emergency Rescue Team (ERT): The team should consist skilled, expertise and trained persons, those who physically, mentally fit and having endurance to adverse situation and sense of quick response to emergency situations.

Evacuation Meeting Location (Assembly point): A designated area where all employees will assemble during a site evacuation emergency.

Fire Detection System: An outside firm or a site monitoring system that detects and sends out a warning in the event of a fire.

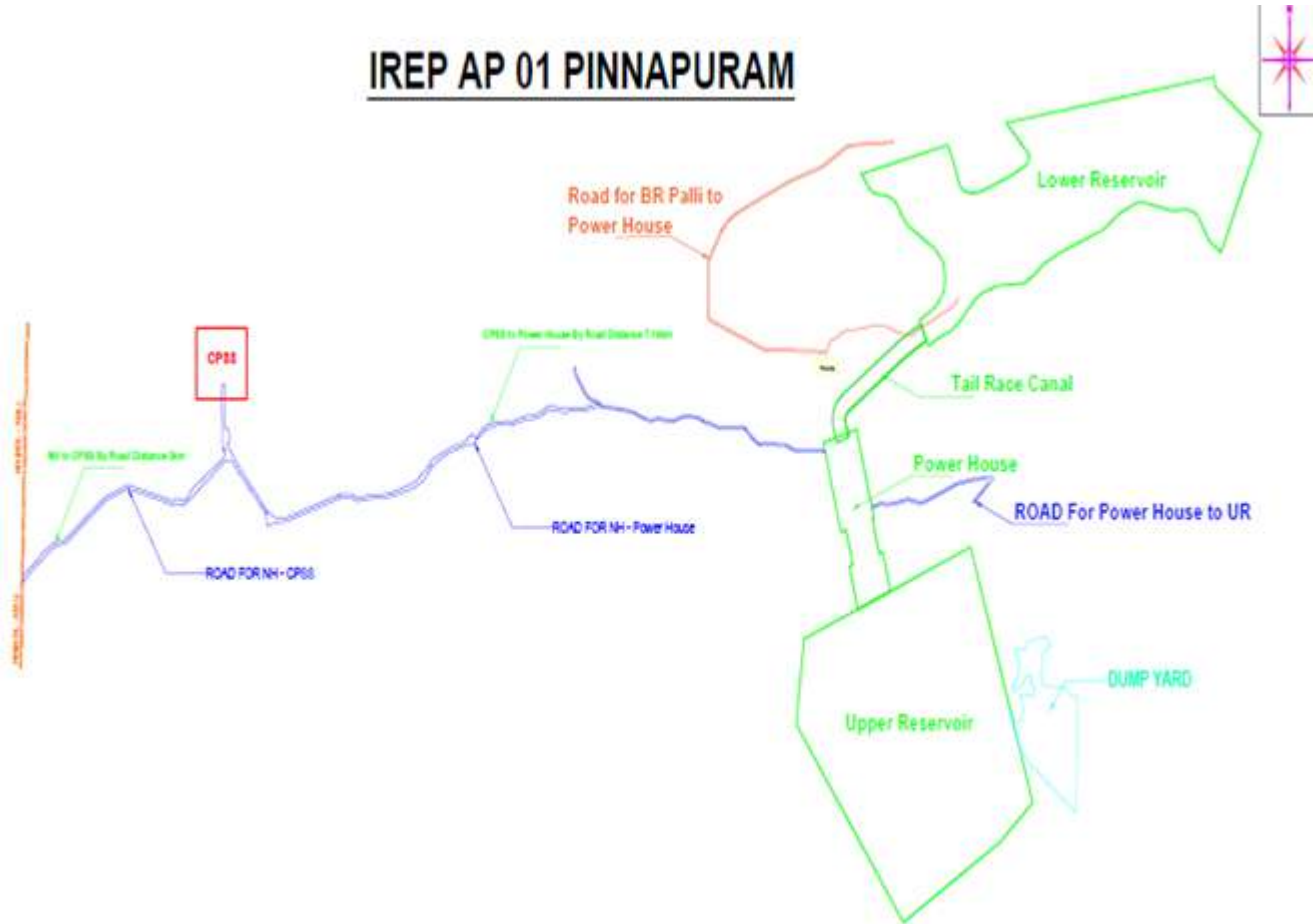
Fuel/Ignition Sources: Any material, chemical, etc. that has the potential to increase the size, or possibly start, a fire (i.e. boxes, skids, rags, oil, fuel, paint, etc.).

Hazardous Materials: Any chemical meeting the hazardous criteria of being toxic, flammable, or corrosive defined by national regulations.

Highly Combustible Materials: Any material or chemical that will readily catch fire (i.e. fuel, oily rags, etc.).

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4. IREP-Pinnapuram Project Site - Location Layout



5. IREP- PINNAPURAM Project site" Emergency Response Plan.

Greenko believes that the best response of emergency comes from good emergency preparedness, clear emergency procedures, safe work practices, clearly defined roles, and responsibilities as well as trainings. IREP-Pinnapuram, project site, Emergency Response plan is in line with the Greenko Group EHS Policy and Procedure.

6. IREP- PINNAPURAM Project site" Emergency Management procedures.

The procedure to be adopted during emergency is as follows:

All project Execution personnel at project site are imparted emergency response training. Anybody observing an emergency situation will immediately proceed with emergency response actions as trained. These include immediate seeking of assistance and rescue of persons in danger (if possible), contacting the emergency

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coordinator (contact details must be displayed at key locations), evacuation of location if necessary, etc. Details of general training are available in the training document.

Actions by other personnel are as per training and drills conducted.

Actions by Emergency Coordinator: the emergency coordinator is specifically trained to intimate and assemble specialist teams for rescue and combat as well as to alert other coordinators of specific tasks. - i.e. transport coordinator, ambulance /medical coordinator etc.

Action by special teams / specific coordinators: specialist for rescue and combat are available with clearly defined roles. The notified teams and coordinators will perform their identified roles.

All clear and resumption of work: as per training, there is a clear method for alerting “**ALL CLEAR**”. The emergency coordinator coordinating the specific emergency will signal all clear when he is convinced that the emergency has been resolved and it is safe to resume work. When this signal is given all operating personnel will resume work in an orderly manner.

Codification of Sirens:

S.No.	Siren	Indication
1	Operating electrical siren thrice of one minute each with time gap of 30 seconds in between.	On site Emergency Alert
2	Continuous Siren for one minute	All Clear - Emergency Controlled
3	Continuous sound for 15 seconds (Only one time)	Siren Testing

Note: For Blasting work also, Sirens are given as per Blasting siren protocol at local areas by restricting entry of workers, employees etc. as a proactive measure.

Reporting and corrective action: The emergency coordinator and Site EHS lead prepares a report along with gaps identified and actions as applicable to bridge those gaps and informs all the concerned site team members for necessary actions as applicable.

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7. Key Personnel and Their Duties.

- 7.1 Emergency Control Coordinator (Site Controller):**
- 7.2 On Site Emergency Coordinator (Incident Controllers):**
- 7.3 Emergency Control Advisory Team:**
- 7.4 Technical Support Team:**
- 7.5 HR & Administration Team:**
- 7.6 Medical Team:**
- 7.7 Fire Fighting Team:**
- 7.8 Rescue Team:**
- 7.9 Recovery & Project, Operation Continuity Team:**

Responsibilities of Emergency Response Team:

7.1 Emergency Control Coordinator (Site Controller):

- a. Overall, in-charge to control emergency, recovery & Project, operation continuity.
- b. Observer will be declared at site by the site controller by looking at the site operating\emergency circumstances.
- c. Authorize for Mobilization of Resources.
- d. Coordinate with Emergency Advisory Team to receive advice on the emergency actions and direct the Onsite Emergency controller.
- e. Coordinate Emergency Control through On-site Emergency Teams.
- f. Communicate with the interested parties, Local Authorities, Mutual Aids, etc.
- g. Authorize for raise request for Resources and its use at site.
- h. Coordinate Medical Team, Rescue Team, Fire Fighting Team, etc. to facilitate control, rescue & treatment of victims.
- i. Coordinate with Recovery & Operation Continuity Teams to clear of the Incident location and restart the site.
- j. Communicate with the Emergency Control Coordinator and apprise him of the emergency situation at site.
- k. Responsible to assess and inform the end of emergency at the site.

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- I. Responsible to call the end of emergency.

7.2 On Site Emergency Coordinator (Incident Controllers):

- a. Overall, in-charge at the field to control emergency, recovery & Project, operation continuity.
- b. Authorize for raise request for Resources and its use at site.
- c. Coordinate Medical Team, Rescue Team and Fire Fighting Team etc. to facilitate control, rescue & treatment of victims.
- d. Coordinate with Recovery & Operation Continuity teams to clear of the Incident locations and restart the site.
- e. Communicate with the Emergency Control Coordinator and apprise him of the emergency situation at site.
- f. Responsible to assess and inform the end of emergency at the site.

7.3 Emergency Control Advisory Team:

- a. Act in the capacity of the advisor to the Emergency Control Coordinator.
- b. Communicate with the Technical Team to identify the technical feasibility of the rescue or recovery & operation continuity options.
- c. Coordinate with Administration & Legal support team to handle the labor unrest, local authority, treatment options, HR issues, PR issues etc.
- d. Investigate the causes of the Emergency & recommend corrective action.
- e. Log the sequence of events so that report of the emergency operation can be prepared to identify the deficiencies in the Emergency preparedness system and recommend improvement.

7.4 Technical Support Team:

- a. Evaluate the technical aspects of in the control/ mitigation of the emergency & operation continuity.

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- b. Review the technical documents and recommend feasibility.
- c. Evaluate the need of emergency, understand the recovery measures, arrange for the resources, and supervise the recover till initiation of operation.
- d. Arranging for cranes, equipment, and electrical assistance and coordinating with the Emergency Team.
- f. Ensure the Damage is controlled, removed from the site and the site is reinstated for the operation to start smoothly.
- g. Communicate with the Emergency Advisory Team and furnish required clarifications.

7.5 HR & Administration Team:

- a. Coordinate with the Hospitals for the treatment of the injured.
- b. Coordinate with the Local Authorities including the Police etc.
- c. Communicate with the Sub Agencies and ensure no Labor Unrest takes place.
- d. Ensure communication to the relatives in case of fatality.
- e. Manage the Media with assistance from the Emergency Control Coordinator.
- f. Arrange for the food/ welfare facilities etc. if the rescue, recovery & operation continuity activity extends beyond the regular working hours.

7.6 Medical Team:

- a. Coordinate with the Site Emergency Controller.
- b. Communicate & coordinate with the First-Aider to provide First-Aid to the injured.
- c. Coordinate with the Ambulance & Emergency vehicle & other Mutual-Aid Ambulance to remove the victim to the nearest Hospital.
- d. Assist the First-Aider to organize personnel for assistance.
- e. Record the victims' details and communicate to the Site Emergency Controller.

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7.7 GSS/ Security Team:

- a. In case of any emergency at any location in the project, passes information about emergency-to-Emergency controller, EHS, HR Dept. and section in-charge for necessary action.
- b. Ensures traffic is free for fire tender, ambulance for safe access on time without panic.
- c. Communicates time to time situation to the Security head for further communication.
- d. Ensures all workers and employees reach safe assembly point in case of any emergency.
- e. Ensures to have head count of workers and employees at entry gate, check points and tunnels as defined.
- f. Plays key role in communication about fire inception, prevention & control.
- g. By the surveillance messages they inform management about local issues, sabotage etc.

7.8 Fire Fighting Team:

- a. Coordinate with the Site Emergency Controller.
- b. Communicate & Coordinate with the Firefighting Team to control the fire in the initial stages.
- c. Coordinate with the fire brigade in the event of big fire and extend necessary assistance especially in case of chemical fire provide MSDS & Quantity etc.
- d. Ensure the fire is controlled and does not pose a threat to the people or property.
- e. Responsible to declare the fire is controlled to the Site Emergency Controller.

7.9 Rescue Team:

- a. Coordinate with the Site Emergency Controller.
- b. Organize the search and rescue operation.
- c. Coordinate Head Count Operation obtain the Missing details & initiate rescue operation.

7.10 Recovery & Operation Continuity Team

- a. Coordinate with the Site Emergency Controller.
- b. Evaluate the need of emergency, understand the recovery measures, arrange for the resources, and supervise the recovery till initiation of operation.
- c. Arranging for cranes, equipment, and electrical assistance and coordinating with the emergency

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team.

d. Ensure the Damage is controlled, removed from the site and the site is reinstated for the operation to start smoothly.

8. Actions in case of Emergency.

In the event of an Emergency

- Stop all the jobs and report to the Safe Assembly Point.
- Stop all the Hot Jobs in the area including Welding, Gas Cutting, grinding etc.
- Stop all the machineries and park in a secure place, ensure it does not obstruct any movement of the fire engine etc.
- The Entrance entry of any person (except ERP team) to the site must be stopped.
- Turn Off generators, Compressors, and other powered equipment, unless these provide power for emergency services.
- Attack fire with the equipment provided if it is safe to do so
- Obey the instruction of the Site EHS coordinator / Engineer In-charge/ Supervisory staff.
- Assist the Fire Fighting Team, Medical Team, Rescue Team, and technical team to control the emergency.

9. Potential Emergencies:

- i. Emergency action plan during fire.
- ii. Emergency action plan during explosion (Gas cylinder, and Explosives handling and transportation etc.)
- iii. Emergency action plan during leakage of toxic or combustible gases.
- iv. Emergency action plan during spillage of acids/chemicals/ flammable liquids.
- v. Emergency action plan for major equipment failure.
- vi. Emergency action plan during road accidents of own vehicles / heavy machinery.

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- vii. Emergency action plan during structural collapse.
- viii. Emergency action plans during tower crane/mobile crane/crawler crane collapse, scaffold collapse.
- ix. Emergency action plan during bomb threat.
- x. Emergency action plans during snake bites / scorpion / poisonous insects.
- xi. Emergency action during Electrocution.
- xii. Emergency action during Lightning and thunderstorm.
- xiii. Emergency action during Person collapse due to heat stroke or faint.
- xiv. Emergency action during Food poisoning.
- xv. Emergency action plan during Riot Local People.
- xvi. Emergency action plan during fall from Height.
- xvii. Emergency action plan during Earthquake.
- xviii. Emergency action plan during Heavy Rains and Inundation.
- xix.** Emergency action plan during Epidemic/Contagious Disease.

10. Site Emergency Facilities.

The List of emergency facilities available at site is as follows:

- a) First aid room with all equipment
- b) Ambulance
- c) First aid boxes at prominent locations
- d) Fire Tender
- e) Fire extinguishers at prominent locations.

11. Safe Assembly Points.

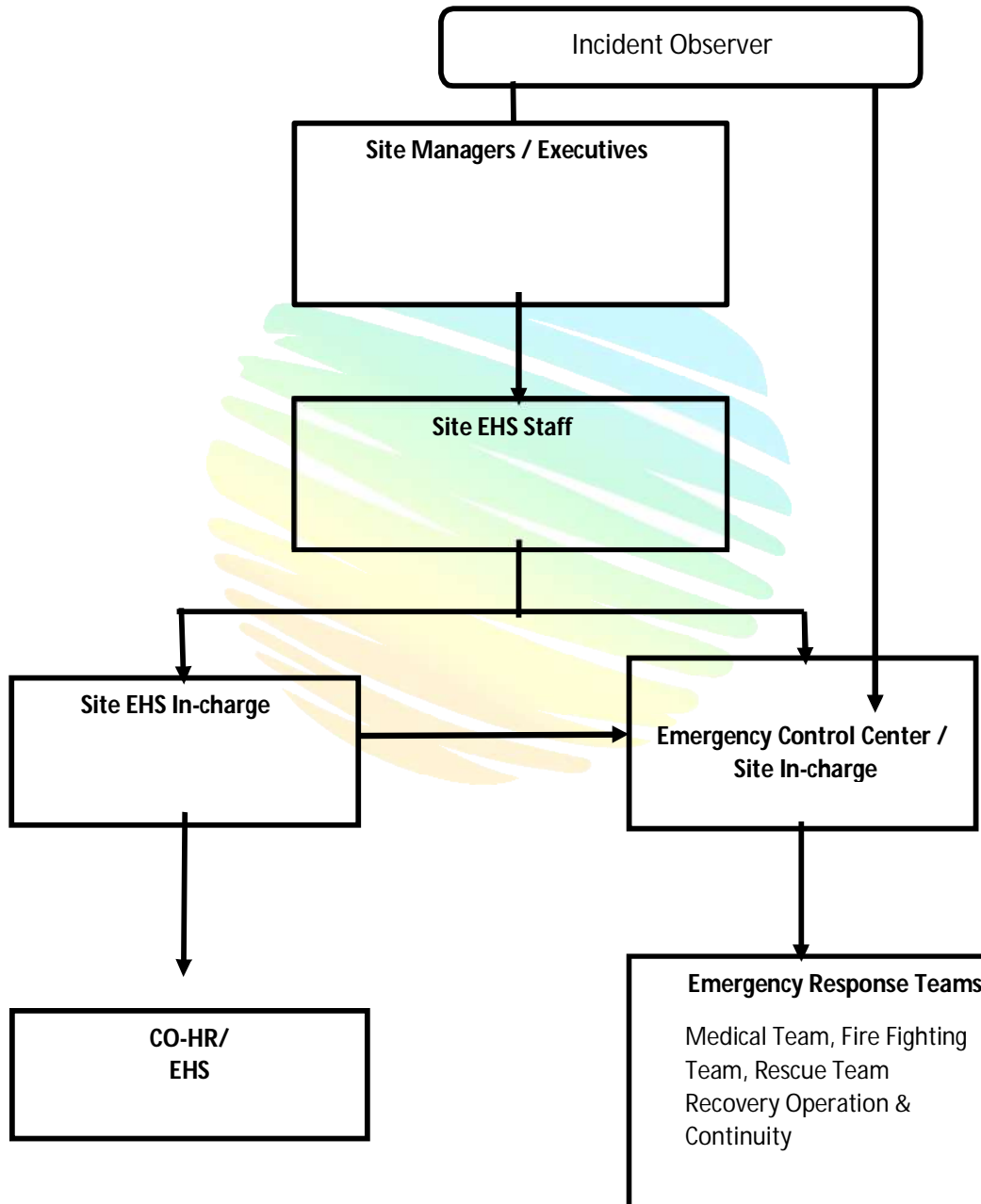
Assembly points to be identified for emergencies.

- Assembly point-1 – Near Powerhouse

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- Assembly point-2 – Near Adit
- Assembly Point 3 – Near Approach Channel (UR)
- Assembly Point 4 – Near Executive Camp Office
- Assembly Point 5 – CPSS

12. Site Emergency Communication.



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13. Training and Mock drills:

There are two types of trainings conducted for the preparedness of emergencies i.e. Special trainings and General trainings.

I. Special Trainings

The following trainings will be provided to the Special teams.

- **Special training for firefighting team:** Training will be provided to all members of Fire Fighting Team working in the project / project area.
- **First aid training:** First aid training will be given to identified employees and workers by authorized Doctors from St. John Ambulance. Those who clear the written and practical tests will be issued a first aid trained certificate.
- **Defensive driving Training for drivers.**
- **Training for fire rescue team.**
- **Training for height work team.**

II. General Trainings

The following trainings will be given to all the personnel of the site.

Training on Fire fighting and use of fire and Safety equipment

All supervisory personnel and senior operators are trained in basic Fire Fighting and use of Fire appliances and portable Fire extinguishers. Refresher training courses will be periodically conducted, to cover all project personnel once in a year.

Emergency Mock Drills

Mock drill is a practice drill, conducted so as to get familiarity with mitigating methods during an actual emergency.

The practice of Mock drill helps:

- In identifying the actual difficulties that can be encountered in the field during an actual emergency

and enable the organization in taking up pre compliance.

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- Keeping the emergency equipment in working condition.
- In avoiding confusion about what to do and what not to do, among employees during an actual emergency.
- In checking the quick response of employees during emergency.

Mock drills are conducted at least once in two months for checking the effectiveness of the emergency response plan, EHS In-charge records the observations. Mock drills are conducted under the supervision of EHS dept. Mock drill is carried out either by giving prior information to employees or it can be a surprise drill.

In case of surprise mock drill, the organizer informs the date, time and the location where the drill would be conducted, to the Project head and identified observers only. However, it would be informed to the neighboring villagers etc. just before conducting the mock drill to avoid confusion.

Mock drill can be conducted in evening and apart from general working times to check the response of the employees.

Review meeting on the observations of mock drill is arranged immediately after the mock drill and the findings of the drill are discussed and meeting minutes are circulated to all the concerned for compliance.

Wherever possible the training content / manuals will be available with the site H.R. Otherwise the specific organizations which impart training will be identified and listed with contact details and specialized trainings will be imparted to special team by those agencies and training records will be maintained.

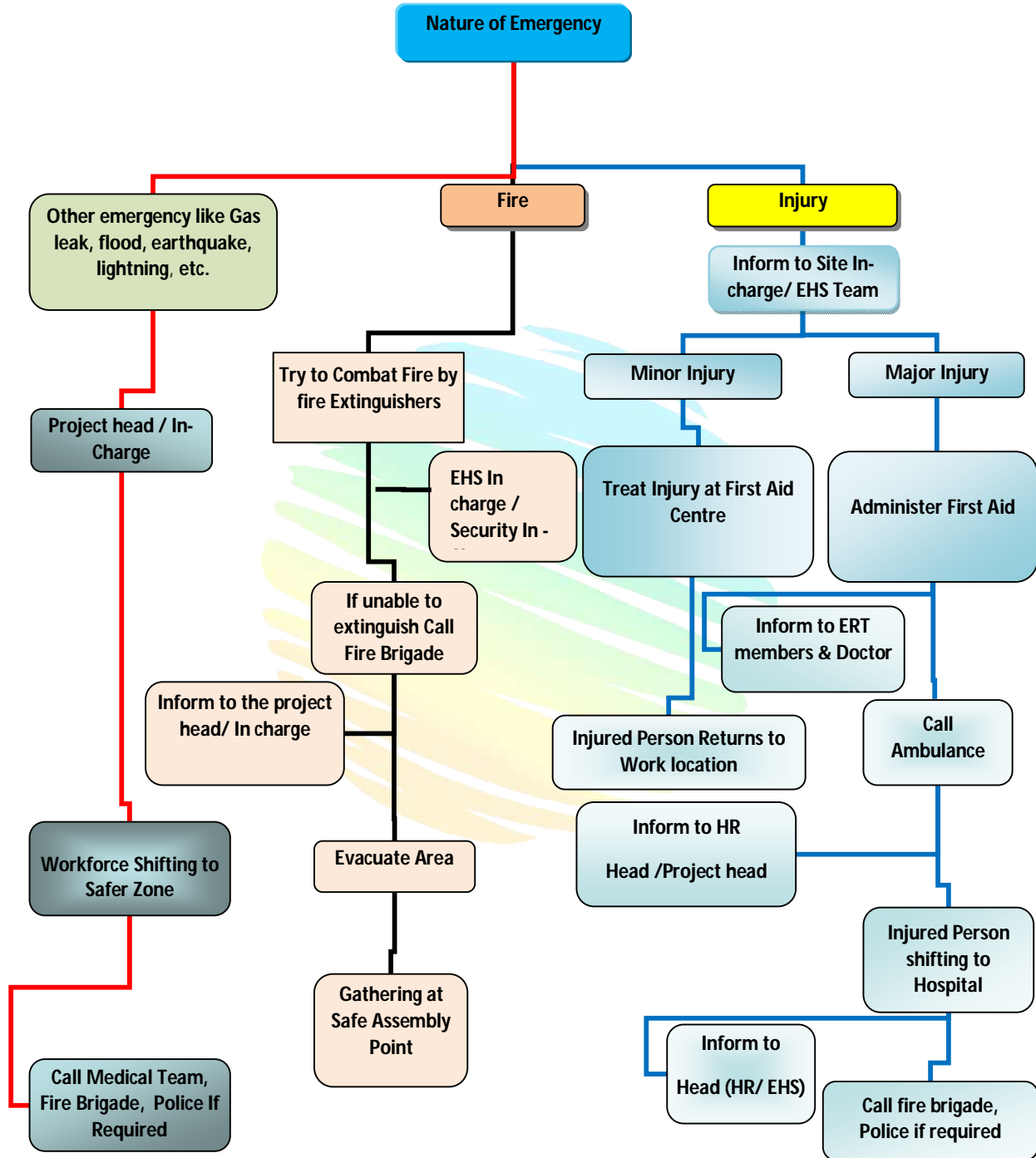
The Project H.R/EHS manager will also have training details for all individuals including coordinators and special teams with list of coordinators, special teams, names of team members and team sizes.

Signage and display material

All hazardous areas will have appropriate signage and there will be display of general site safety rules at entry points and near the office. Care will be taken to prevent unauthorized persons from entering the sites. List of display material is available in **“Signage and Display Material checklist.”**

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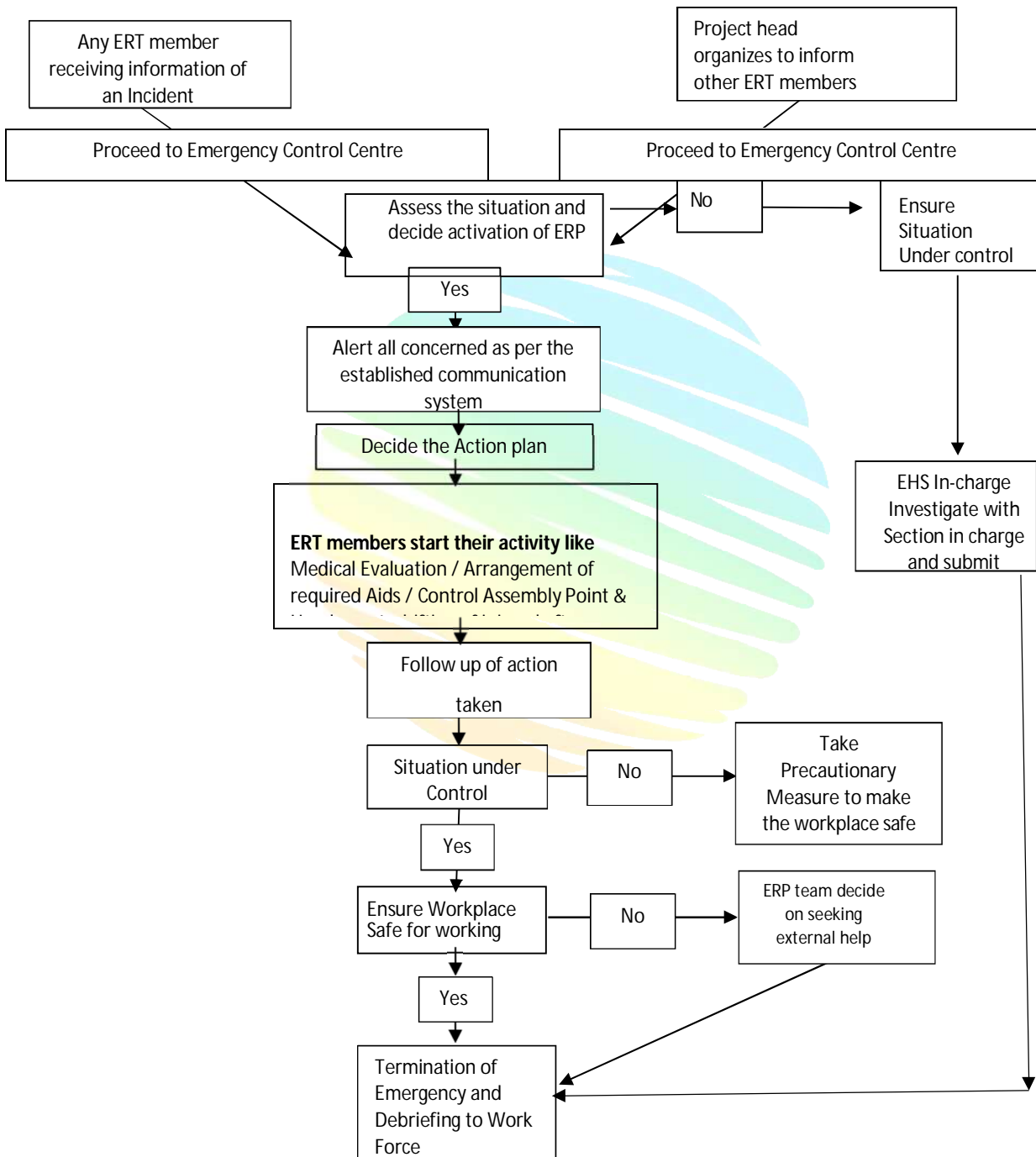
14. Emergency Response Requirement.



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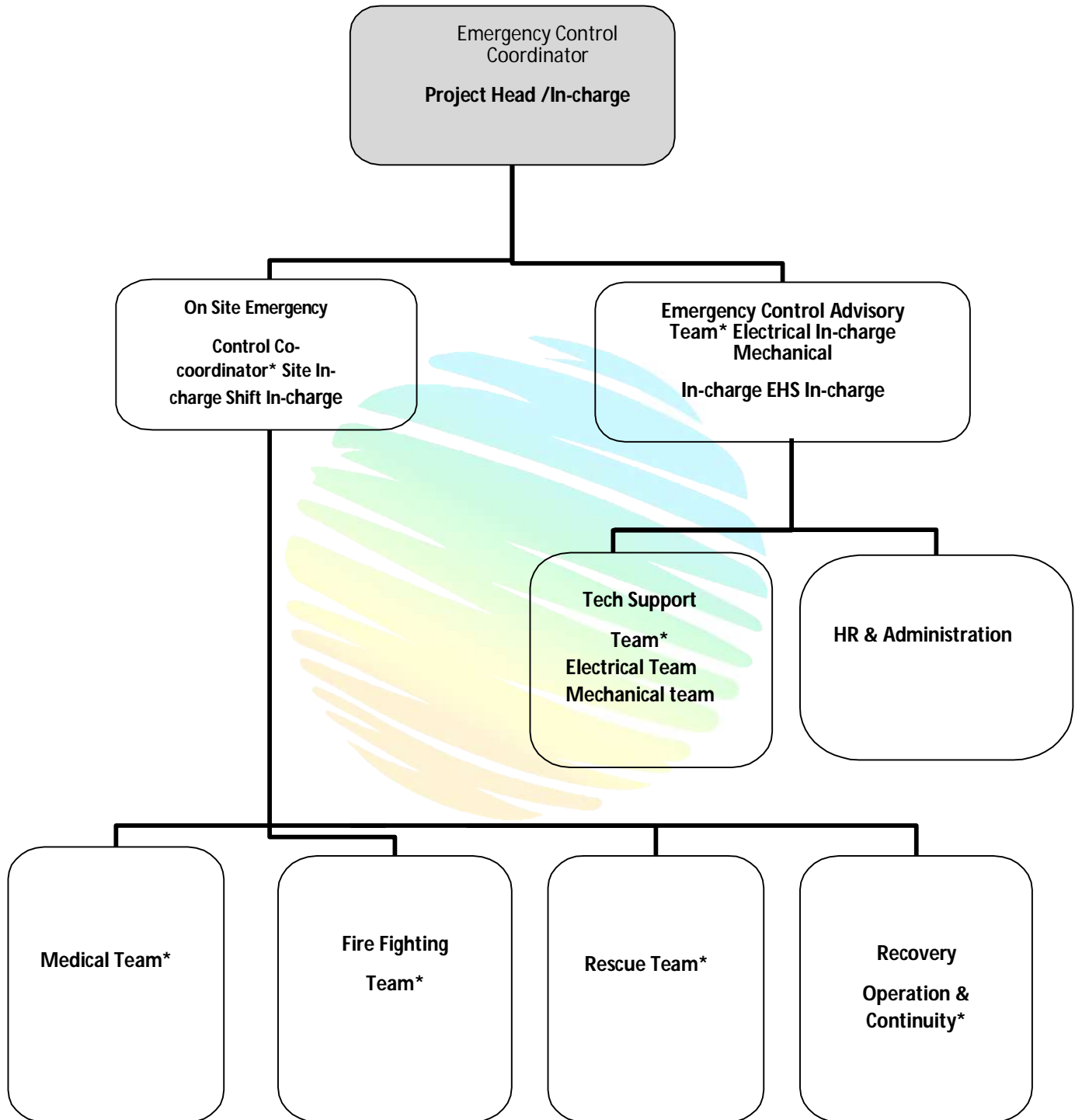
15. Emergency Response Management.

FLOA flow chart outlining the typical flow of operations that should be followed in an emergency response management is given below.



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16. Emergency Response Team.



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17. Evacuation Procedure.

17.1 Emergency action plans during fire.

Sl. No.	Individual / Team	Initial Response	Incident control
1	Observer of fire	<ul style="list-style-type: none"> • Informs to nearby persons by shouting "FIRE, FIRE". • Informs the type of fire and location to emergency coordinator and Local emergency leader over phone. • If he is trapped in a building during a fire and a window is available, he should place an article of clothing (shirt, etc) outside the window as a marker for rescue crews to find him. If there is no window, he should stay near to the floor, where the air will be less toxic. He should Shout at regular intervals to alert emergency crews to know his location. • DO NOT PANIC! 	<ul style="list-style-type: none"> • He assesses the situation. • If it is small fire, he isolates the fire by removing any combustible material from the location and fights the fire with the available firefighting devices only if he knows how to operate them. • If it is an electrical fire or large fire, he waits till the firefighting team comes.
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He shows the location to the firefighting team and first aid team. He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • He understands the type of fire. • He disconnects the energy sources. • He isolates the fire by removing all combustible material from the spot. • He takes the help of personnel available in that area. • He decides whether the fire is small enough to fight, and whether he can do so safely. He makes sure he has an escape route at all times. • He takes the decision of evacuation. • He helps the personnel in evacuation.
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • If required declares emergency by sounding alarm. 	

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		<ul style="list-style-type: none"> • He informs the electrical / mechanical team to isolate from energy source and equipment. • He contacts and mobilizes the specific coordinators and special teams to take specified actions. He guides the team members who are assisting him to take necessary actions. • He informs the details to the project Head. • He investigates the incident and prepares the report. 	
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. • He communicates with the external agencies such as Inspector of factories, Labor inspector, Police, etc. 	
5	Electrical / mechanical team	<ul style="list-style-type: none"> • On receiving the communication from emergency coordinator, reprehensive will shut down the equipment /isolate area. 	
6	Firefighting team	<ul style="list-style-type: none"> • On receiving the information about the fire, they rush to the spot with the available firefighting equipment. 	<ul style="list-style-type: none"> • They fight the fire. • They will inform to the emergency coordinator, if help from fire department is required. • They will help the fire department in extinguishing the fire. • They will help the rescue teams in rescuing the trapped or injured persons.
7	Statutory coordinator	<ul style="list-style-type: none"> • If fire goes out of control, he will call government fire office immediately for assistance. • If necessary, he will inform to the police department. 	
8	Rescue team	<ul style="list-style-type: none"> • On receiving the information, they will rush to the spot with all the required equipment. 	<ul style="list-style-type: none"> • They take the help of local emergency leaders and firefighting team in identifying the trapped / injured persons. • They assess the situation and if it is safe will go to the place and rescue and bring the casualties.

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9	First aid team	<ul style="list-style-type: none"> They rush to spot with the first aid kits. 	<ul style="list-style-type: none"> They will Identify the affected and give first aid treatment. They will give CPR if required. They will send the severely injured to hospital.
10	Welfare coordinator	<ul style="list-style-type: none"> He deposes a person at assembly area to take attendance. He arranges drinking water, snacks etc for the visitors and employees. He informs to the relatives of affected persons. He arranges persons, round the clock at hospitals to look after the need of the affected personnel. 	

17.2 Emergency action plan during explosion (gas cylinder, explosives handling and transportation etc.)

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> They should not panic. They should immediately take cover under tables, desks and other objects that will give protection against falling glass or debris. After the initial effects of the explosion have subsided, they should report the emergency by telephone to emergency coordinators and give their names and describe the location and nature of the emergency. 	<ul style="list-style-type: none"> On receiving the information to evacuate, they should walk quickly to the designated emergency assembly area.
2	Local emergency leader	<ul style="list-style-type: none"> He informs to emergency coordinator. He gives the details of incident and location. He shows the way to the firefighting team and first aid team. He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> He takes the decision of evacuation after consultation with emergency coordinator. He helps the personnel in evacuation.
3	Emergency Coordinator	<ul style="list-style-type: none"> Once received the information about the emergency 	

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		<p>he will be in contact with the local emergency leader.</p> <ul style="list-style-type: none"> • He declares emergency by sounding alarm. • He contacts and mobilizes the specific coordinators and special teams to take specified actions. • He informs the electrical / mechanical team to isolate the equipment. • He guides the team members who are assisting him to take necessary actions. • He informs the details project head. • He investigates the incident and prepares the report. 	
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. • He communicates with the external agencies such as Inspector of factories, Labor inspector, Police, etc. 	
5	Electrical / mechanical team	<ul style="list-style-type: none"> • On receiving the communication from emergency coordinator, they shut down the equipment / isolate area. 	
6	Statutory coordinator	<ul style="list-style-type: none"> • After consulting with emergency coordinator, he will call government fire office immediately for assistance. • He will also inform to the police department. 	
7	Firefighting team	<ul style="list-style-type: none"> • On receiving the information about the incident, they rush to the spot with the equipment. 	<ul style="list-style-type: none"> • If there is a fire. They fight the fire. • They will inform to the emergency coordinator, If help from fire department is required. • They will help the fire department in extinguishing the fire.

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			<ul style="list-style-type: none"> • They will help the rescue teams in rescuing the trapped or injured persons.
8	Rescue team	<ul style="list-style-type: none"> • On receiving the information, they will rush to the spot with all the required equipment. 	<ul style="list-style-type: none"> • They take the help of local emergency leaders and firefighting team in identifying the trapped / injured persons. • They assess the situation and if it is safe will go to the place and rescue and bring the casualties.
9	First aid team	<ul style="list-style-type: none"> • They rush to spot with the first aid kits. 	<ul style="list-style-type: none"> • They will identify the affected and give first aid treatment. • They will give CPR if required. • They will send the severely injured to hospital.
10	Welfare coordinator	<ul style="list-style-type: none"> • He arranges a person to take attendance at the assembly area and identify the missing persons. • He informs the details of missing persons to emergency coordinator. • He arranges drinking water, snacks etc for the visitors and employees. • He informs to the relatives of affected persons. • He arranges persons, round the clock at hospitals to look after the need of the affected personnel. 	

17.3. Emergency action plan during leakage of toxic or combustible gases.

#	Individual / Team	Initial Response	Incident control
1	Observer	<ul style="list-style-type: none"> • He informs to nearby personnel. • He stops all the works immediately. • He shuts down all the equipment and makes them safe. • He vacates the workplace along with others, checking the windsock and proceeds in an orderly manner in up wind direction to the emergency assembly point. • Inform to emergency coordinator and local emergency leader. 	

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2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He vacates the workplace and walk briskly in upwind direction to assembly point. 	
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He declares emergency by sounding alarm. • He contacts and mobilizes the specific coordinators and special teams to take specified actions. • He informs the electrical / mechanical team to isolate equipment if required. • He guides the team members who are assisting him to take necessary actions. • He informs the details to the Project head. • He investigates the incident and prepares the report. 	
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. • He communicates with the external agencies such as Inspector of factories, Labor inspector, Police, etc. 	
	Electrical / mechanical team	<ul style="list-style-type: none"> • On receiving the communication from emergency coordinator, they shut down the equipment and isolate area. 	
5	Statutory coordinator	<ul style="list-style-type: none"> • He will call government fire office immediately for assistance. • If necessary, he will inform to the police department. 	
6	Rescue team	<ul style="list-style-type: none"> • On receiving the information, they will rush to the spot with all the required equipment. 	<ul style="list-style-type: none"> • They assess the situation and if it is safe will go to the place and rescue and bring the casualties.
7	First aid team	<ul style="list-style-type: none"> • They rush to spot with the first aid kits. 	<ul style="list-style-type: none"> • They will identify the affected and give first aid treatment. • They will give CPR if required.

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			<ul style="list-style-type: none"> They will send the affected persons to hospital.
8	Welfare coordinator	<ul style="list-style-type: none"> He deputs a person at assembly area to take attendance and identify the missing persons. He informs to the coordinator regarding the missing persons. He arranges drinking water, snacks etc for the visitors and employees. He informs to the relatives of affected persons. He arranges persons, round the clock at hospitals to look after the need of the affected personnel. 	

17.4 Emergency action plan during spillage of acids/chemicals/ flammable liquids.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> THEY SHOULD NOT PANIC. They should not try to clean up the spill without knowledge! They should call emergency coordinator and inform about the spill. 	<ul style="list-style-type: none"> On receiving the information to evacuate, they should walk quickly to the assembly area. If the spill presents an immediate danger, they should evacuate as per the instructions of emergency team. They should first protect themselves and then take the injured person(s) to fresh air if they are safe.
2	Local emergency leader	<ul style="list-style-type: none"> He informs to emergency coordinator. He gives the details of incident and location. He shows the way to the firefighting team and first aid team. He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> He takes the decision of evacuation after consultation with emergency coordinator. He helps the personnel in evacuation. He barricades the affected area immediately.

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3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He declares emergency by sounding alarm. • He contacts and mobilizes the specific coordinators and special teams to take specified actions. • He informs the electrical / mechanical team to isolate equipment if required. • He guides the team members who are assisting him to take necessary actions. • He informs the details To the Project head. • He investigates the incident and prepares the report. 	
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. • He communicates with the external agencies such as Inspector of factories, Labor inspector, Police, etc. 	
5	Electrical / mechanical team	<ul style="list-style-type: none"> • On receiving the communication from emergency coordinator, they shut down the equipment / isolate area. 	
6	Statutory coordinator	<ul style="list-style-type: none"> • After consulting with emergency coordinator, he will call government fire office immediately for assistance. • He will also inform to the police department. 	
7	Spill control team	<ul style="list-style-type: none"> • On receiving the information about the incident, they rush to the spot with the available equipment. 	<ul style="list-style-type: none"> • Prior to responding to any spills, spill control team should be thoroughly familiar with the hazards involved. • DO NOT handle a spill without understanding the risks. • Use proper protective equipment, use spill kit to contain the spilled materials.

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			<ul style="list-style-type: none"> Apply absorbent material found within the spill kits to the entire spilled area. Place the used absorbent into a disposal bag and then into a non-combustible container. NEVER clean up Spills that present an immediate hazard (fire, explosion, chemical exposure, etc.), call for expert help.
8	Rescue team	<ul style="list-style-type: none"> On receiving the information, they will rush to the spot with all the required equipment. 	<ul style="list-style-type: none"> They take the help of local emergency leaders and spill control team in identifying the trapped / injured persons. They assess the situation and if it is safe will go to the place and rescue and bring the casualties.
9	First aid team	<ul style="list-style-type: none"> They rush to spot with the first aid kits. 	<ul style="list-style-type: none"> They remove contaminated clothing of casualties. Flush the persons with water at least for 15 to 30 minutes. They will give first aid treatment. They will give CPR if required. They will send the severely injured to hospital.
10	Welfare coordinator	<ul style="list-style-type: none"> He arranges a person to take attendance at the assembly area and identify the missing persons. He informs the details of missing persons to emergency coordinator. If the occurrence happened in the night time, they arrange sufficient lighting system as soon as possible. He arranges drinking water, snacks etc for the visitors and employees. He informs to the relatives of affected persons. He arranges persons, round the clock at hospitals to look after the need of the affected personnel. 	

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17.5 Emergency action plan for major equipment failure.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • THEY SHOULD NOT PANIC. • They inform to the emergency coordinator and local emergency leader. 	<ul style="list-style-type: none"> • On receiving the information to evacuate, they should walk quickly to the nearest marked exit and ask others to do the same. • Once outside, they should move to the designated emergency assembly area.
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the firefighting team and first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • He takes the decision of evacuation after consultation with emergency coordinator. • He helps the personnel in evacuation. • He barricades the affected area immediately.
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He declares emergency by sounding alarm. • He contacts and mobilizes the specific coordinators and special teams to take specified actions. • He informs the electrical / mechanical team to isolate equipment if required. • He guides the team members who are assisting him to take necessary actions. • He informs the details to the project head. • He investigates the incident and prepares the report. 	

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4	Project Head	<ul style="list-style-type: none"> • He instructs the operator to stop the wind turbines and de-energize the entire area. • He gets the details from the Emergency coordinator. • He communicates the information to the top management. • He communicates with the external agencies such as Inspector of factories, Labor inspector, Police, etc. 	<ul style="list-style-type: none"> • He evacuates all the persons from the main control room to the assembly area.
5	Statutory coordinator	<ul style="list-style-type: none"> • After consulting with emergency coordinator, he will call government fire office immediately for assistance. • He will also inform to the police department. 	
6	Firefighting team	<ul style="list-style-type: none"> • On receiving the information about the incident, they rush to the spot with the available equipment. 	<ul style="list-style-type: none"> • If there is a fire. They fight the fire. • They will help the rescue teams in rescuing the trapped or injured persons.
7	Rescue team	<ul style="list-style-type: none"> • On receiving the information, they will rush to the spot with all the required equipment. 	<ul style="list-style-type: none"> • They take the help of local emergency leaders and firefighting team in identifying the trapped / injured persons. • They assess the situation and if it is safe will go to the place and rescue and bring the casualties.
8	Transport coordinator	<ul style="list-style-type: none"> • Arranges mobile machinery which can be used as per the instructions from management / technical team. 	
9	First aid team	<ul style="list-style-type: none"> • They rush to spot with the first aid kits. 	<ul style="list-style-type: none"> • They will identify the affected and give first aid treatment. • They will give CPR if required. • They will send the severely injured to hospital.
10	Welfare coordinator	<ul style="list-style-type: none"> • He arranges a person to take attendance at the assembly area and identify the missing persons. He informs the details of missing persons to emergency coordinator. • If the occurrence happened in the nighttime, they arrange sufficient lighting system as soon as possible. 	

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		<ul style="list-style-type: none"> • He arranges drinking water, snacks etc for the visitors and employees. • He informs to the relatives of affected persons. • He arranges persons, round the clock at hospitals to look after the need of the affected personnel. 	
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17.6 Emergency action plan during road accidents of own vehicles / heavy machinery.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • HE SHOULD NOT PANIC. • He informs to the emergency coordinator. 	
2	Local emergency leader	<ul style="list-style-type: none"> • One of the persons at the site of the incident acts as local emergency leader. • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the rescue team and first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • He barricades the affected area immediately. • If required on consultation with the emergency coordinator, depending on the severity of the situation he sends the injured to nearby hospital in any available vehicle.
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He declares emergency by sounding alarm. • He contacts and mobilizes the specific coordinators and special teams to take specified actions. • He guides the team members who are assisting him to take necessary actions. • He informs the details to the project head. 	

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		<ul style="list-style-type: none"> • He investigates the incident and prepares the report. 	
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. • He communicates with the external agencies such as Inspector of factories, Labor inspector, Police, etc. 	
6	Rescue team	<ul style="list-style-type: none"> • On receiving the information, they will rush to the spot with all the required equipment. 	<ul style="list-style-type: none"> • They help the first aid team in giving first aid.
7	Statutory coordinator	<ul style="list-style-type: none"> • After consulting with emergency coordinator, he will call government fire office immediately for assistance. • He will also inform to the police department. 	
8.	Transport coordinator	<ul style="list-style-type: none"> • He arranges emergency vehicle for transporting the injured to the hospital. 	
9	First aid team	<ul style="list-style-type: none"> • They rush to spot with the first aid kits. 	<ul style="list-style-type: none"> • They will identify the affected and give first aid treatment. • They will give CPR if required. • They will send the severely injured to hospital.
10	Welfare coordinator	<ul style="list-style-type: none"> • He goes to the place of incident. • He takes the photo snaps of the affected area. • He informs to the hospital authorities regarding the injured. • He informs to the relatives of affected persons. • He arranges persons, round the clock at hospitals to look after the need of the affected personnel. 	

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17.7 Emergency action plan during structural collapse, Landslide.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • THEY SHOULD NOT PANIC. • They inform to the emergency coordinator and local emergency leader. 	<p>On receiving the information to evacuate, they should walk quickly to the nearest marked exit and ask others to do the same.</p> <p>Once outside, they should move to the designated emergency assembly area.</p>
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the firefighting team and first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • He takes the decision of evacuation after consultation with emergency coordinator. • He helps the personnel in evacuation. • He barricades the affected area immediately.
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He declares emergency by sounding alarm. • He contacts and mobilizes the specific coordinators and special teams to take specified actions. • He informs the electrical / mechanical team to isolate equipment if required. • He guides the team members who are assisting him to take necessary actions. • He informs the details to the project head. • He investigates the incident and prepares the report. 	
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. 	

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		<ul style="list-style-type: none"> • He communicates the information to the top management. • He communicates with the external agencies such as Inspector of factories, Labor inspector, Police, etc. 	
5	Electrical / mechanical team	<ul style="list-style-type: none"> • On receiving the communication from emergency coordinator, they shut down the equipment and isolate area. 	
6	Statutory coordinator	<ul style="list-style-type: none"> • After consulting with emergency coordinator, he will call government fire office immediately for assistance. • He will also inform to the police department. 	
6	Firefighting team	<ul style="list-style-type: none"> • On receiving the information about the incident, they rush to the spot with the available equipment. 	<ul style="list-style-type: none"> • If there is a fire. They fight the fire. • They will help the rescue teams in rescuing the trapped or injured persons.
7	Rescue team	<ul style="list-style-type: none"> • On receiving the information, they will rush to the spot with all the required equipment. 	<ul style="list-style-type: none"> • They take the help of local emergency leaders and firefighting team in identifying the trapped / injured persons. • They assess the situation and if it is safe will go to the place and rescue and bring the casualties.
8	Transport coordinator	<ul style="list-style-type: none"> • Arranges mobile machinery which can be used as per the instructions from management / technical team. 	
9	First aid team	<ul style="list-style-type: none"> • They rush to spot with the first aid kits. 	<ul style="list-style-type: none"> • They will identify the affected and give first aid treatment. • They will give CPR if required. • They will send the severely injured to hospital.
10	Welfare coordinator	<ul style="list-style-type: none"> • He arranges a person to take attendance at the assembly area and identify the missing persons. He informs the details of missing persons to emergency coordinator. • If the occurrence happened in the night time, they arrange sufficient lighting system as soon as possible. 	

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		<ul style="list-style-type: none"> • He arranges drinking water, snacks etc for the visitors and employees. • He informs to the relatives of affected persons. • He arranges persons, round the clock at hospitals to look after the need of the affected personnel. 	
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17.8 Emergency action plans during tower crane/mobile crane/crawler crane collapse, scaffold collapse.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • They should not panic. • They inform to the emergency coordinator and local emergency leader. 	<ul style="list-style-type: none"> • On receiving the information to evacuate, they should walk quickly to the designated emergency assembly area.
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the firefighting team and first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • He takes the decision of evacuation after consultation with emergency coordinator. • He helps the personnel in evacuation. • He barricades the affected area immediately. • He shows the way to rescue and first aid teams.
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He declares emergency by sounding alarm. • He contacts and mobilizes the specific coordinators and special teams to take specified actions. • He informs the electrical / mechanical team to isolate the equipment if required. 	

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		<ul style="list-style-type: none"> • He guides the team members who are assisting him to take necessary actions. • He informs the details to the project head. • He investigates the incident and prepares the report. 	
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. • He communicates with the external agencies such as Inspector of factories, Labor inspector, Police, etc. 	
5	Electrical / mechanical team	<ul style="list-style-type: none"> • On receiving the communication from emergency coordinator, they shut down the equipment and isolate area. 	
6	Rescue team	<ul style="list-style-type: none"> • On receiving the information, they will rush to the spot with all the required equipment. 	<ul style="list-style-type: none"> • They take the help of local emergency leaders and firefighting team in identifying the trapped / injured persons. • They assess the situation and if it is safe will go to the place and rescue and bring the casualties.
7	Firefighting team	<ul style="list-style-type: none"> • On receiving the information about the incident, they rush to the spot with the available equipment. 	<ul style="list-style-type: none"> • They will help the rescue teams in rescuing the trapped or injured persons.
8	Statutory coordinator	<ul style="list-style-type: none"> • After consulting with emergency coordinator, he will call government fire office immediately for assistance. • He will also inform to the police department. 	
9	Transport coordinator	<ul style="list-style-type: none"> • Arranges mobile machinery which can be used as per the instructions from management / technical team. 	
10	First aid team	<ul style="list-style-type: none"> • They rush to spot with the first aid kits. 	<ul style="list-style-type: none"> • They will identify the affected and give first aid treatment.

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			<ul style="list-style-type: none"> • They will give CPR if required. • They will send the severely injured to hospital.
11	Welfare coordinator	<ul style="list-style-type: none"> • He arranges a person to take attendance at the assembly area and identify the missing persons. He informs the details of missing persons to emergency coordinator. • If the occurrence happened in the nighttime, they arrange sufficient lighting system as soon as possible. • He takes the photo snaps of the affected area. • He arranges drinking water, snacks etc for the visitors and employees. • He informs to the relatives of affected persons. • He arranges persons, round the clock at hospitals to look after the need of the affected personnel. 	

17.9 Emergency action plan during bomb threat.

#	Individual / Team	Initial Response	Incident control
1	The individual receiving the bomb threat	<ul style="list-style-type: none"> • He should not panic. • He is responsible for carefully recording the information. • He informs to the emergency coordinator and local emergency leader. • In the event of a call, obtain all the information possible from the caller. • He should be firm, calm, speak quietly and request the following information: <ul style="list-style-type: none"> • Request the name of the building / area where the threat is located • Request the exact location of the device • Which area, which building, What floor • What part of the building (north, south, etc.) • Type of explosive or device or bomb • Detonation time 	

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		<ul style="list-style-type: none"> Description of the package. Once emergency leader arrives, he should handover the phone to him. 	
2	Local emergency leader	<ul style="list-style-type: none"> On receiving the information, he should walk quickly to the person who received the call. He should stay along with the first respondent and if required takes over the call from him. He should Advise the caller that the workers are working, and the detonation of a bomb could result in the death or serious injury to many people. 	
3	Emergency Coordinator	<ul style="list-style-type: none"> Once received the information about the emergency he will be in contact with the local emergency leader. He declares emergency by sounding alarm. He contacts and mobilizes the specific coordinators and special teams to take specified actions. He informs the electrical / mechanical team to isolate the equipment if required. He guides the team members who are assisting him to take necessary actions. He informs the details to the project head. He investigates the incident and prepares the report. 	<ul style="list-style-type: none"> On receiving the information, he should walk quickly to the person who received the call. He should take over the call from the first respondent. He should Advise the caller that the workers are working and the detonation of a bomb could result in the death or serious injury to many people.
4	Project Head	<ul style="list-style-type: none"> He gets the details from the Emergency coordinator. He communicates the information to the top management. He communicates with the external agencies such as Police inspector, Inspector of factories, Labor inspector, etc. 	
5	Electrical / mechanical team	<ul style="list-style-type: none"> On receiving the communication from emergency coordinator, they shut down the equipment and isolate area. 	
6	Rescue team	<ul style="list-style-type: none"> On receiving the information, they will rush to the spot with all the required equipment. 	<ul style="list-style-type: none"> They take the help of local emergency leaders and firefighting team in identifying the trapped / injured persons. They assess the situation and if it is safe will go to the place and rescue and bring the casualties.

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7	Firefighting team	<ul style="list-style-type: none"> On receiving the information about the incident, they rush to the spot with the available equipment. 	<ul style="list-style-type: none"> They will help the rescue teams in rescuing the trapped or injured persons.
8	Statutory coordinator	<ul style="list-style-type: none"> After consulting with emergency coordinator, he will call government fire office immediately for assistance. He will also inform to the police department. 	
9	Transport coordinator	<ul style="list-style-type: none"> Arranges mobile machinery which can be used as per the instructions from management / technical team. 	
10	First aid team	<ul style="list-style-type: none"> They rush to spot with the first aid kits. 	<ul style="list-style-type: none"> They will identify the affected and give first aid treatment. They will give CPR if required. They will send the severely injured to hospital.
11	Welfare coordinator	<ul style="list-style-type: none"> He arranges a person to take attendance at the assembly area and identify the missing persons. He informs the details of missing persons to emergency coordinator. If the occurrence happened in the nighttime, they arrange sufficient lighting system as soon as possible. He takes the photo snaps of the affected area. He arranges drinking water, snacks etc for the visitors and employees. He informs to the relatives of affected persons. He arranges persons, round the clock at hospitals to look after the need of the affected personnel. 	

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17.10 Emergency action plans during snakebites / scorpion / poisonous insects.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • They should have a good look at the snake. • This will help the doctor to identify and treat accordingly. • They should Inform to the emergency coordinator and local emergency leader. THEY SHOULD NOT PANIC. 	
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • Make the person lie down. • Make him not to move much. • Most snakes are not poisonous, and it is likely that the person has been bitten by a non-poisonous snake. Reassure the person with smooth words. • If fang marks are visible, the snake probably of the poisonous species.
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He contacts first aid team to take actions. • He informs the details to the project head. • He investigates the incident and prepares the report. 	
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. • He communicates with the external agencies such as Inspector of factories, Labor inspector, Police, etc. 	
5	First aid team	<ul style="list-style-type: none"> • They should rush to spot with the first aid kits. • First aid instructions: 	

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		<ul style="list-style-type: none"> • Keep the bitten limb below the level of the heart. This slows down the spread of the poison to the heart. So, if he has been bitten on the leg, he could lie down with his leg on a lower level than the mattress, perhaps on a stool. • Wipe the area clean with an antiseptic and retain the wipe for venom traces. • Don't apply ice to the bite. • Tie a band or cloth about two inches width away from the wound. If there has been swelling, tie the band about two inches from the swelling. • The band should be at least an inch thick, and it should be tied within 20 minutes of the bite, if it is to have any effect. • The band should be firm and tight, but not so tight that it completely blocks blood flow. A good rule of thumb is that the bandage should be loose enough for a finger to slip through. • As far as possible, DO NOT LET THE PERSON WALK. Remember, the limb should be moved as little as possible. • If the person is bitten by any other animal like a dog or spider, the first aid is relatively same in either case. Wash the wound with soap and water and apply an antiseptic. Always contact a doctor, whether the bite is big or small, if swelling occurs, the wound gets worse or if the person develops fever. If he gets bitten by a tick, don't squeeze the tick while removing it, as this causes the tick to secrete further bacteria. • Send the person to hospital as soon as possible.
6	Transport coordinator	<ul style="list-style-type: none"> • He arranges the emergency vehicle.
7	Welfare coordinator	<ul style="list-style-type: none"> • He informs to the hospital about the incident and gives the details. • He informs to the relatives of affected person. • He arranges persons, round the clock at hospitals to look after the need of the affected personnel.

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17.11 Emergency action plan during Electrocutation.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • Isolate the affected circuit from electric supply <p>Provide first-aid to the injured for:</p> <ul style="list-style-type: none"> • Shock • Burns • Temporary breathlessness • Declare Emergency Situation if required • Depending on the nature of injury, decide to shift the victim / injured person to the Medical assistance or request Medical assistance on-site through ambulance • Inform relatives of the affected person • Install sign boards on the affected circuits • Repair, Rectify and Restore the healthiness of the circuit involved • If required, informed statutory and regulatory bodies for any checks and validations before using the affected facility. • Update records for further analysis for corrective and preventive actions • They should Inform to the emergency coordinator and local emergency leader. • THEY SHOULD NOT PANIC. 	<p>Ensure you and your workers are safe; safety takes precedence over other priorities</p> <p>Notify the Supervisor of the incident</p> <p>Take action to limit the damage; contain the material loss, fire, etc.</p>
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • Establish management decision points for ordering a separate organization for an Incident within Incident

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3	Emergency Coordinator	<ul style="list-style-type: none"> Once received the information about the emergency he will be in contact with the local emergency leader. He contacts first aid team to take actions if necessary He informs the details to the project head. He investigates the incident and prepares the report. 	<ul style="list-style-type: none"> Provide briefing to staff and at the premises regarding incident. On receiving the information, he should walk quickly to the person who received the call. He should take over the call from the first respondent.
4	Project Head	<ul style="list-style-type: none"> He gets the details from the Emergency coordinator. He communicates the information to the top management. 	<ul style="list-style-type: none"> Notification and assistance to families of victims;
5	Electrical / mechanical team	<ul style="list-style-type: none"> On receiving the communication from emergency coordinator, they shut down the equipment and isolate area. 	
6	First aid team	<p>First aid instructions:</p> <ul style="list-style-type: none"> They should rush to spot with the first aid kits. Coordinate with proper medical response team. Coordinate with the Communications to ensure proper medical unit procedures are followed. List all potential evacuation resources and/or equipment assigned to the incident Provide First Aid for the Victim and Send the victim / injured person to hospital as soon as possible. 	
7	Transport coordinator	<ul style="list-style-type: none"> He arranges the emergency vehicle. 	<ul style="list-style-type: none"> Identify preferred method to the transport the victim. Request any additional resources and/or equipment needed,
8	Welfare coordinator	<ul style="list-style-type: none"> He informs to the hospital about the incident and gives the details. He informs to the relatives of affected person. 	

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17.12 Emergency action plan during Lightning and thunderstorm.

Lightning is a leading cause of injury and death from Weather-related hazards.

Thunderstorms are dangerous storms that include lightning.

50+ MPH



Include powerful winds



Create lightning and hail



Cause flash flooding

IF YOU ARE UNDER A THUNDERSTORM WARNING, FIND SAFE SHELTER RIGHT AWAY.

**When thunder roars,
go indoors**



Pay attention to alerts and warnings.

**Move from outdoors into a
building or car**



Unplug appliances.



Do not use landline phones.

Note: For Handling & use of Explosives special care must be exercised during lightening & thunderstorm.

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#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> Evacuation needs to be carried out as a precautionary measure based on warning indicators of weather in order to protect Lightning affected persons from the full effects. They should Inform to the emergency coordinator and local emergency leader. THEY SHOULD NOT PANIC. 	<ul style="list-style-type: none"> Ensure you and your workers are safe; safety takes precedence over other priorities.
2	Local emergency leader	<ul style="list-style-type: none"> He informs to emergency coordinator. He gives the details of incident and location. He shows the way to the first aid team. He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> All response activities will be undertaken at the local level through a suitably devised Incident Command System (ICS) coordinated by the local administration
3	Emergency Coordinator	<ul style="list-style-type: none"> Once received the information about the emergency he will be in contact with the local emergency leader. He contacts first aid team to take actions if necessary He informs the details to the project head. He investigates the incident and prepares the report. 	<ul style="list-style-type: none"> Ensure adequate supply of medical kits.
4	Project Head	<ul style="list-style-type: none"> He gets the details from the Emergency coordinator. He communicates the information to the top management. 	Notification and assistance to families of victims;
5	First aid team	<p>First aid instructions:</p> <ul style="list-style-type: none"> Ensure adequate medical supplies available. They should rush to spot with the first aid kits. Coordinate with proper medical response team. Coordinate with the Communications to ensure proper medical unit procedures are followed. List all possible evacuation resources and/or equipment assigned to the incident Provide First Aid for the Victim and Send the victim to hospital as soon as possible. 	

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6	Transport coordinator	<ul style="list-style-type: none"> • He arranges the emergency vehicle. 	<ul style="list-style-type: none"> • Identify preferred method to transport of the victim • Request any additional resources and/or equipment needed.
7	Welfare coordinator	<ul style="list-style-type: none"> • He informs to the hospital about the incident and gives the details. • He informs to the relatives of affected person. 	

17.13 Emergency action plan during Person collapse due to heat stroke or faint.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • Evacuation needs to be carried out as a precautionary measure based on warning indicators, prior to impact, in order to protect threatened persons from the full effects. They should Inform to the emergency coordinator and local emergency leader. THEY SHOULD NOT PANIC. 	<ul style="list-style-type: none"> • Ensure you and your workers are safe; safety takes precedence over other priorities.
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • All response activities will be undertaken at the local level through a suitably devised Incident Command System (ICS) coordinated by the local administration
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He contacts first aid team to take actions if necessary • He informs the details to the project head. • He investigates the incident and prepares the report. 	<ul style="list-style-type: none"> • Ensure adequate supply of ice packs and IV fluids.
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. 	<ul style="list-style-type: none"> • Notification and assistance to families of victims;
5	First aid team	<p>First aid instructions:</p> <ul style="list-style-type: none"> • Ensure adequate medical supplies available. • They should rush to spot with the first aid kits. 	

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		<ul style="list-style-type: none"> • Coordinate with proper medical response team. • Coordinate with the Communications to ensure proper medical unit procedures are followed. • List all possible evacuation resources and/or equipment assigned to the incident • Provide First Aid for the Victim and Send the victim to hospital as soon as possible. • Special efforts will be made for the availability of IV fluid, antibiotics vaccines etc. 	
6	Transport coordinator	<ul style="list-style-type: none"> • He arranges the emergency vehicle. 	<ul style="list-style-type: none"> • Identify preferred method to transport of the victim. • Request any additional resources and/or equipment needed.
7	Welfare coordinator	<ul style="list-style-type: none"> • He informs to the hospital about the incident and gives the details. • He informs to the relatives of affected person. 	

17.14 Emergency action plan during Food poisoning.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • Evacuation needs to be carried out as a precautionary measure based on food poisoning of Victim in order to protect affected persons from the full effects. They should Inform to the emergency coordinator and local emergency leader. THEY SHOULD NOT PANIC. 	<ul style="list-style-type: none"> • Ensure you and your workers are safe; safety takes precedence over other priorities.
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • All response activities will be undertaken at the local level through a suitably devised Incident Command System (ICS) coordinated by the local administration

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3	Emergency Coordinator	<ul style="list-style-type: none"> Once received the information about the emergency he will be in contact with the local emergency leader. He contacts first aid team to take actions if necessary He informs the details to the project head. He investigates the incident and prepares the report. 	<ul style="list-style-type: none"> Ensure adequate supply of medical kits.
4	Project Head	<ul style="list-style-type: none"> He gets the details from the Emergency coordinator. He communicates the information to the top management. 	<ul style="list-style-type: none"> Notification and assistance to families of victims;
5	First aid team	<p>First aid instructions:</p> <ul style="list-style-type: none"> Ensure adequate medical supplies available. They should rush to spot with the first aid kits. Coordinate with proper medical response team. Coordinate with the Communications to ensure proper medical unit procedures are followed. List all possible evacuation resources and/or equipment assigned to the incident Provide First Aid for the Victim and Send the victim to hospital as soon as possible. 	
6	Transport coordinator	<ul style="list-style-type: none"> He arranges the emergency vehicle. 	<ul style="list-style-type: none"> Identify preferred method to transport of the victim. Request any additional resources and/or equipment needed.
7	Welfare coordinator	<ul style="list-style-type: none"> He informs to the hospital about the incident and gives the details. He informs to the relatives of affected person. 	

17.15 Emergency action plan during Riot Local People.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> He should not panic. He is responsible for carefully recording the riot local people. 	<ul style="list-style-type: none"> Ensure you and your workers are safe; safety takes precedence over other priorities.

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		<ul style="list-style-type: none"> • He informs to the emergency coordinator and local emergency leader. • In the event of a call, obtain all the information possible from the caller. • He should be firm, calm, speak quietly and request the following information: <ul style="list-style-type: none"> • Request the exact location • Which area • Which building. 	
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • All response activities will be undertaken at the local level through a suitably devised Incident Command System (ICS) coordinated by the local administration
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He contacts first aid team to take actions if necessary • He informs the details to the project head. • He investigates the incident and prepares the report. 	<ul style="list-style-type: none"> • Ensure adequate supply of medical kits.
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. 	<ul style="list-style-type: none"> • Notification and assistance to families of victims;
5	First aid team	<ul style="list-style-type: none"> • First aid instructions: • Ensure adequate medical supplies available. • They should rush to spot with the first aid kits. • Coordinate with proper medical response team. • Coordinate with the Communications to ensure proper medical unit procedures are followed. • List all possible evacuation resources and/or equipment assigned to the incident • Provide First Aid for the Victim and Send the victim to hospital as soon as possible. 	

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6	Transport coordinator	<ul style="list-style-type: none"> • He arranges the emergency vehicle. 	<ul style="list-style-type: none"> • Identify preferred method to transport of the victim. • Request any additional resources and/or equipment needed.
7	Welfare coordinator	<ul style="list-style-type: none"> • He informs to the hospital about the incident and gives the details. • He informs to the relatives of affected person. 	

17.16 Emergency action plan during Fall from Height.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • He should not panic. • He is responsible for carefully recording the effected person. • He informs to the emergency coordinator and local emergency leader. • In the event of a call, obtain all the information possible from the caller. • He should be firm, calm, speak quietly and request the following information: <ul style="list-style-type: none"> • Request the name of the building / area where the incident happen is Condition. • Request the exact location of the device <ul style="list-style-type: none"> • Which area • Which building. • What floor • What part of the building (north, south, etc.) 	<ul style="list-style-type: none"> • Ensure you and your workers are safe; safety takes precedence over other priorities.
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • All response activities will be undertaken at the local level through a suitably devised Incident Command System (ICS) coordinated by the local administration

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3	Emergency Coordinator	<ul style="list-style-type: none"> Once received the information about the emergency he will be in contact with the local emergency leader. He contacts first aid team to take actions if necessary He informs the details to the project head. He investigates the incident and prepares the report. 	<ul style="list-style-type: none"> Ensure adequate supply of medical kits.
4	Project Head	<ul style="list-style-type: none"> He gets the details from the Emergency coordinator. He communicates the information to the top management. 	<ul style="list-style-type: none"> Notification and assistance to families of victims;
5	First aid team	<ul style="list-style-type: none"> First aid instructions: Ensure adequate medical supplies available. They should rush to spot with the first aid kits. Coordinate with proper medical response team. Coordinate with the Communications to ensure proper medical unit procedures are followed. List all possible evacuation resources and/or equipment assigned to the incident Provide First Aid for the Victim and Send the victim to hospital as soon as possible. 	
6	Transport coordinator	<ul style="list-style-type: none"> He arranges the emergency vehicle. 	<ul style="list-style-type: none"> Identify preferred method to transport of the victim. Request any additional resources and/or equipment needed.
7	Welfare coordinator	<ul style="list-style-type: none"> He informs to the hospital about the incident and gives the details. He informs to the relatives of affected person. 	

17.17 Emergency action plan during earthquake.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> Remain calm and quickly follow the steps If indoors, seek refuge in a doorway or under a desk or table. Stay away from glass windows, shelves and 	<ul style="list-style-type: none"> Ensure you and your workers are safe; safety takes precedence over other priorities.

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		<p>heavy equipment. IF INDOORS DURING AN EARTHQUAKE EXIT THE BUILDING ONLY AFTER THE SHAKING HAS STOPPED.</p> <ul style="list-style-type: none"> • If outdoors, move quickly away from buildings, utility poles, and other structures. Caution: Always avoid power or utility lines as they may be energized. 	
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • All response activities will be undertaken at the local level through a suitably devised Incident Command System (ICS) coordinated by the local administration
3	Emergency Coordinator	<ul style="list-style-type: none"> • Once received the information about the emergency he will be in contact with the local emergency leader. • He contacts first aid team to take actions if necessary • He informs the details to the project head. • He investigates the incident and prepares the report. 	
4	Project Head	<ul style="list-style-type: none"> • He gets the details from the Emergency coordinator. • He communicates the information to the top management. 	<ul style="list-style-type: none"> • Notification and assistance to families of victims;
5	First aid team	<ul style="list-style-type: none"> • First aid instructions: • Ensure adequate medical supplies available. • They should rush to spot with the first aid kits. • Coordinate with proper medical response team. • Coordinate with the Communications to ensure proper medical unit procedures are followed. • List all possible evacuation resources and/or equipment assigned to the incident • Provide First Aid for the Victim and Send the victim to hospital as soon as possible. 	

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6	Transport coordinator	<ul style="list-style-type: none"> • He arranges the emergency vehicle. 	<ul style="list-style-type: none"> • Identify preferred method to transport of the victim. • Request any additional resources and/or equipment needed.
7	Welfare coordinator	<ul style="list-style-type: none"> • He informs to the hospital about the incident and gives the details. • He informs to the relatives of affected person. 	

17.18 Emergency action plan during Heavy Rains and Inundation.

- Dam breakage may happen due to earth quake or seepage of slip zones.
- In our dam premises a partial slip zone is identified, during design & construction necessary methods are followed to mitigate adverse consequences and avoidance of slip at slip zone. during construction of dam.
- If dam breakage occurs due to any of the above reasons then water aggress into low level area.
- As we have identified this emergency scenario we have made drains throughout the project for water escaping to low level area / lower reservoir.

#	Individual / Team	Initial Response	Incident control
1	Personnel at the site of incident	<ul style="list-style-type: none"> • Evacuation needs to be carried out as a precautionary measure based on heavy rain indicators, prior to impact, in order to protect threatened persons from the full effects. They should Inform to the emergency coordinator and local emergency leader. THEY SHOULD NOT PANIC. 	<ul style="list-style-type: none"> • Ensure you and your workers are safe; safety takes precedence over other priorities.
2	Local emergency leader	<ul style="list-style-type: none"> • He informs to emergency coordinator. • He gives the details of incident and location. • He shows the way to the first aid team. • He always will be in contact with the coordinators. 	<ul style="list-style-type: none"> • All response activities will be undertaken at the local level through a suitably devised Incident Command System (ICS) coordinated by the local administration

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3	Emergency Coordinator	<ul style="list-style-type: none"> Once received the information about the emergency he will be in contact with the local emergency leader. He contacts first aid team to take actions if necessary He informs the details to the project head. He investigates the incident and prepares the report. 	<ul style="list-style-type: none"> Ensure adequate supply of ice packs and IV fluids.
4	Project Head	<ul style="list-style-type: none"> He gets the details from the Emergency coordinator. He communicates the information to the top management. 	<ul style="list-style-type: none"> Notification and assistance to families of victims;
5	First aid team	<ul style="list-style-type: none"> First aid instructions: Ensure adequate medical supplies available. They should rush to spot with the first aid kits. Coordinate with proper medical response team. Coordinate with the Communications to ensure proper medical unit procedures are followed. List all possible evacuation resources and/or equipment assigned to the incident Provide First Aid for the Victim and Send the victim to hospital as soon as possible. Special efforts will be made for the availability of IV fluid, antibiotics vaccines etc. 	
6	Transport coordinator	<ul style="list-style-type: none"> He arranges the emergency vehicle. 	<ul style="list-style-type: none"> Identify preferred method to transport of the victim. Request any additional resources and/or equipment needed.
7	Welfare coordinator	<ul style="list-style-type: none"> He informs to the hospital about the incident and gives the details. He informs to the relatives of affected person. 	

17.19 Emergency action plan during Epidemic/Contagious Disease.

Infectious disease emergencies are circumstances caused by biological agents, including organisms such as bacteria, viruses or toxins with the potential for significant illness or death in the population. Infectious disease emergencies may include naturally occurring outbreaks (e.g., measles, mumps, meningococcal disease), emerging infectious diseases (e.g., SARS, avian influenza, Corona virus, COVID-19, etc.), and bioterrorism. The circumstances

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of infectious disease emergencies may vary by multiple factors, including the type of biological agent, the scale of exposure, mode of transmission and intentionality (bioterrorism), and many others. Public health measures to contain such outbreaks are especially important for diseases with high morbidity or mortality and limited medical prophylaxis and/or treatment.

- The purpose of the Contagious Disease Emergency Response (CDER) is to contain an outbreak of disease caused by an infectious agent or biological toxin or respond to other infectious disease emergencies as defined above.
- The ERP lays down in concise form the steps required to be taken to respond effectively to an Epidemic / Contagious Disease.
- The ERP also lays down an institutional mechanism in unambiguous terms for the worst-case scenario with the Central/ State/ District administrations functioning on a trigger mechanism basis.
- The National Disaster Management Authority may lay down policies and guidelines from time to time to be followed by different Ministries/ Departments/ Organizations/ Technical Agencies of the Government of India and the State Governments for preparedness and response to an Epidemic / Contagious disease.
- The ERP encompasses five phases of activity as under the Government of India.

Preparedness Phase: - This will include all actions that have to be taken by various agencies to ensure the required state of preparedness. This will include documentation; having required equipment's in place, exercises/ drills, training programs, awareness generation programs, communication strategy, the establishment of command-and-control system, and storage of emergency medicines/ vaccines/ diagnostic agents, etc.

Early Warning Phase: - As a majority of the Epidemic / Contagious diseases have an incubation phase before onset, the early warning mechanism in the surveillance system will play an important role. Activities like case definition, notification, compilation and interpretation of epidemiological data are important aspects and need to be strengthened in the existing surveillance system for developing the early warning signals related to Epidemics / Communicable / Infectious disease.

Notification Phase: - It would be mandatory to report any unusual syndrome or incidence of a usual syndrome in unusual numbers. The Central/ State/ Local Authorities, to make such events notifiable, would enact necessary legal provisions. The activities in this phase include rapid epidemiological investigation, quick laboratory support

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for confirming the diagnosis, quarantine, isolation, keeping health facilities geared up for impending casualty management and evolving public health strategies for control.

Response Phase: - The Capabilities available with the Government at various levels for handling the epidemic are put into effect. The activities include rapid epidemiological investigation, quick laboratory support, mass casualty management and initiation of preventive, curative and specific control measures for containing the further spread of the disease.

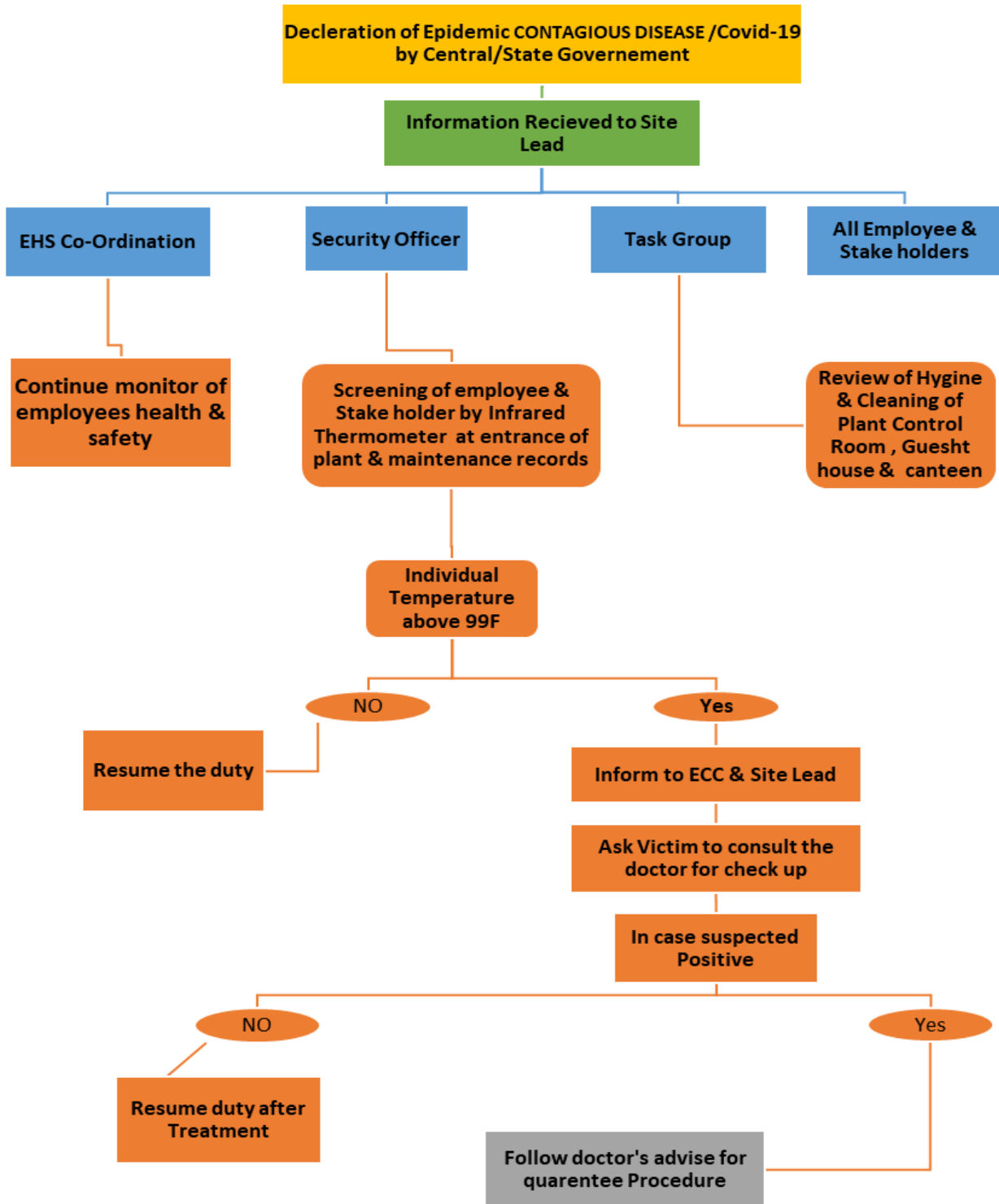
Recovery Phase: - The setbacks suffered as a result of the Epidemic / Contagious diseases are restored and lessons learned in this phase are incorporated in the future preparedness plan(s).

Reference Regulations / Acts: - Epidemic Diseases Act 1897., National Disaster Management Act 2005, Amended 2019 – Sec 269 and 270., Management of Biological Disaster Guideline 2008., Epidemic/ Contagious Disease - Prevention of Spread & Control- Standard Operating Procedure.



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Epidemic /Contagious disease emergency communication flow chart:



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THINGS TO NOTE & EVALUATE:

1. The Timings of the Siren, Start of Emergency & End of emergency.
2. The First person & last Person Arrival at Assembly Point to understand the response times.
3. The Emergency response, like stoppage of Machinery ways to come down from height etc.
4. Arrangement and organization at the Assembly Point.
5. Head count, accountability & recognition of the Missing person including the visitors.
6. Initiation of the rescue operation and Sharing of the findings with the group.

18. Emergency response plan check list/Formats/Documents.

FORM/DOCUMENT TITLE	FORM / DOCUMENT NO.
Emergency Preparedness Mock Drill Record	F-CO-OHS 08-01
Emergency Equipment Checklist	F-CO-OHS 08-02
Location Details of Emergency equipment	F-CO-OHS 08-03
Telephone Numbers of Key Personnel of plant / project	F-CO-ERP-01
Telephone Numbers of Statutory Personnel and External Agencies	F-CO-ERP-02
Telephone Numbers of Hospitals	F-CO-ERP-03
Head count report	F-CO-ERP-04
Signage and Display Material checklist	F-CO-ERP-05
Emergency information card	F-CO-ERP-06
Emergency response flowchart and Emergency escape route	F-CO-ERP-07
OHS and Mock drill calendar	Annexure 16 - H&S Plan

19. First Aid material's list.

1. Adhesive tape.
2. 4" x 4" sterile gauze pads.
3. Antacid - for indigestion.
4. Antidiarrheal (Imodium, Pepto-Bismol, for example).
5. Antihistamine cream.
6. Antiseptic agent (small bottle liquid soap) - for cleaning wounds and hands.
7. Aspirin - for mild pain, heart attack.

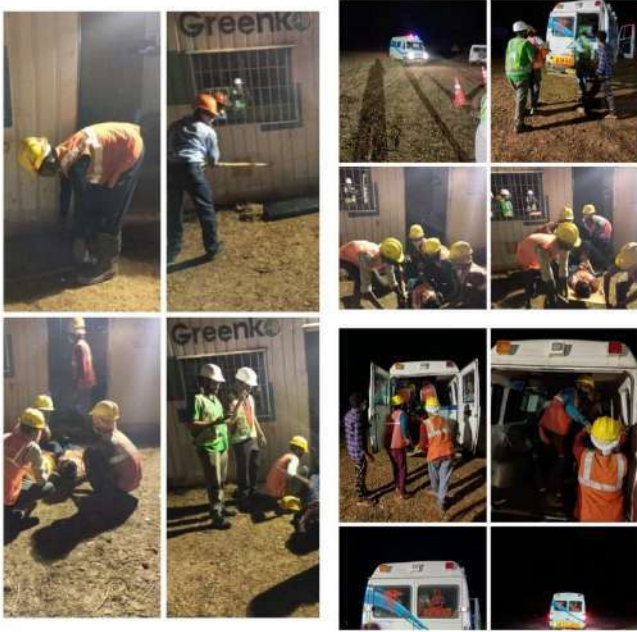
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8. Adhesive bandages (all sizes).
9. Diphenhydramine (Benadryl) - oral antihistamine.
10. Book on first aid.
11. Cigarette lighter - to sterilize instruments and to be able to start a fire in the wilderness.
12. Cough medication.
13. Dental kit - for broken teeth, loss of crown or filling.
14. Exam gloves.
15. Small flashlight.
16. Ibuprofen (Advil is one brand name); another good choice is Naprosyn (Aleve is a brand name).
17. Insect repellent.
18. Knife (small Swiss Army-type).
19. Moleskin - to apply to blisters or hot spots.
20. Nasal spray decongestant - for nasal congestion from colds or allergies.
21. Nonadhesive wound pads (Telfa).
22. Polysporin antibiotic ointment.
23. Oral decongestant.
24. Plastic resealable bags (oven and sandwich).
25. Pocket mask for CPR (although now, CPR does not have to be mouth to mouth).
26. Safety pins (large and small).
27. Scissors.
28. Sunscreen.
29. Thermometer.
30. Tweezers.
31. Antivenom.

This Emergency Response cum disaster management plan shall be submitted to local authorities over our planning with respect ERDMP, based the same nearby industries and disaster management coordination action plan may be initiated from Local authorities for combating major disasters. We have identified all major emergencies and mitigation plans along with available resources in this ERDMP.

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ANNEXURE: PHOTOS OF SITE ACTIVITIES AND MONITORING ACTIVITIES



MOCK DRILL



Vehicle with Flagman



Tree Replantation along roadside

ANNEXURE: PHOTOS OF SITE ACTIVITIES AND MONITORING ACTIVITIES

Date	Name	Age	Gender	Occupation	Address	Medical History	Signature
12/11/21
12/12/21
12/13/21
12/14/21
12/15/21
12/16/21
12/17/21
12/18/21
12/19/21
12/20/21
12/21/21
12/22/21
12/23/21
12/24/21
12/25/21
12/26/21
12/27/21
12/28/21
12/29/21
12/30/21
12/31/21

MEDICAL REGISTER

enke GREENO INTEGRATED MANAGEMENT SYSTEM PERIODICAL MEDICAL EXAMINATION

165

Name: K. Yella Ravi Date of Birth: 20/08/1988 ID No: 107

Company: Basis Security Contact No: 9780748155 Date of Examination: 21/12/21

Present History & Medication: -

Personal History: -

Physical Activity / Exercise: -

Past History (Past Medications): Tuberculosis / Malaria / Blood Transfusion / Hospitalization / Surgery: -

Family History: HTN / DM / IHD / Asthma / Hypertension / Epilepsy / Others: -

General Examination: Weight: 46 kg, Height: 120 cm, BP: 120/80 mmHg, HR: 70/min, RR: 16/min, SpO2: 98%

Systemic Examination: Eyes: SCL, Ears: Normal, Heart: S1, S2, Lungs: Clear, Abdomen: Normal, Genitals: Normal, Skin: Normal

Vision: Near: A, Distance: B, Colour Vision: C

Conclusion / Recommendations / Remarks: Covid test Negative

Signature: K. Yella Ravi

Activity Checklist: H. CD/OP, TB, PPE, LUNG, RES. PFT, HEARING, VISION, S.P, P/S, CH, ABD

MEDICAL REPORT

107 SELF DECLARATION

Location: AP Teja's Group

Employee / Visitor Name: K. Yella Ravi Date: 26/09/2021

Emp ID / Identity proof details: 7780748155

Gender: Male Age: 33 years

Do you have the following symptoms, please write YES/NO

4. Fever	YES / NO	NO
5. Sore Throat	YES / NO	NO
6. Cough	YES / NO	NO
7. Running nose	YES / NO	NO
8. Body aches	YES / NO	NO
9. Tiredness	YES / NO	NO
10. Shortness of breath	YES / NO	NO
11. Headache	YES / NO	NO
12. Any other COVID Symptoms	YES / NO	NO

Travel Details

13. Have you been in contact with a confirmed COVID-19 patient in the past 7 days unknown? YES / NO: NO

14. Have you been to affected countries or area(s) in the past 14 days? YES / NO: NO

15. Stay address / residential address: Is it in Red Zone/Contaminant? GREEN/ORANGE/RED: GREEN

COVID-19 CASES DETAILS

16. Last 15 days find any positive cases in your residential area? (approx. 100 meters radius) YES / NO: NO

17. Is it your residential / Stay area comes under Containment Zone? YES / NO: NO

18. Have installed "Aarogya setu" App in your mobile? YES / NO: NO

19. Fit mention your travel history (past 14 days) hereunder

1. Travelled from Rangapeta (Chennai) to Sakuraba place (date 22/09/21) (mention in details if it is more than one travel)

2. Your mode of travel: travelled by Bus

3. Vaccination details: one dose Vaccination 20-08-2021

I, K. Yella Ravi hereby declare that the information given in this application is true and correct to the best of my knowledge and belief. In case any information given in this application proves to be false or incorrect, I shall be responsible for the consequences.

Signature: K. Yella Ravi

SELF DECLARATION FORM

ID	Name	Age	Gender	Temp	SpO2	Remarks
30	Shan	25	Male	97.1	98	OK
40	Shan	25	Male	96.7	98	OK
41	Shan	25	Male	95.1	98	OK
42	Shan	25	Male	95.1	98	OK
43	Shan	25	Male	95.4	98	OK
44	Shan	25	Male	95.0	98	OK
45	Shan	25	Male	95.0	98	OK
46	Shan	25	Male	95.0	98	OK
47	Shan	25	Male	95.0	98	OK
48	Shan	25	Male	95.0	98	OK
49	Shan	25	Male	95.0	98	OK
50	Shan	25	Male	95.0	98	OK
51	Shan	25	Male	95.0	98	OK
52	Shan	25	Male	95.0	98	OK
53	Shan	25	Male	95.0	98	OK
54	Shan	25	Male	95.0	98	OK
55	Shan	25	Male	95.0	98	OK
56	Shan	25	Male	95.0	98	OK
57	Shan	25	Male	95.0	98	OK
58	Shan	25	Male	95.0	98	OK
59	Shan	25	Male	95.0	98	OK
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66	Shan	25	Male	95.0	98	OK
67	Shan	25	Male	95.0	98	OK
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74	Shan	25	Male	95.0	98	OK
75	Shan	25	Male	95.0	98	OK
76	Shan	25	Male	95.0	98	OK
77	Shan	25	Male	95.0	98	OK
78	Shan	25	Male	95.0	98	OK
79	Shan	25	Male	95.0	98	OK
80	Shan	25	Male	95.0	98	OK

TEMPERATURE MONITORING RECORD

MEASURES TAKEN TO CONTROL PEST, RODENTS AND MOSQUITOES

