

Environmental and Social Due Diligence Report

Project Number: 47083-004
December 2019

INDIA: Accelerating Infrastructure Investment Facility in India – Tranche 3 Mytrah Vayu (Pennar) Private Limited (Part 9 of 9)

Prepared by India Infrastructure Finance Company Limited for the India Infrastructure Finance Company Limited and the Asian Development Bank.

This environmental and social due diligence report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

- Collect head count if required.
- Transport arrangement
- Additional security if required
- Food /Water or any other welfare facility.
- Liaise with outside agencies like Hospitals, Fire brigades, Ambulance etc. for referral.

f. Security

- Follow instruction from FMS / HR Head
- Allow only authorized personnel in the emergency area
- Make entries of men, material & vehicle entering and leaving from emergency area.

12. MOCK DRILL

Success of an OEP depends on planned and unplanned MOCK DRILLS, if conducted regularly. MOCK drill helps all employees to get familiarized with the OEP and also check the accuracy of their roles.

Frequency: - Mock drills should be conducted at least quarterly basis

Procedure for Mock Drills (planned):

- Inform all employees about MOCK DRILLS
- Fix a date and location of the emergency site for MOCKDRILL
- MOCKDRILLS will be monitored by observers giving due importance to response time and proper procedure (Who would be senior officers not involved in the exercise).
- All members would follow instructions as per OEP.
- After emergency clear the all employees shall return to their respective work place and take the supervisor's instructions.

Such mock drills shall be documented.

13. ASSEMBLY POINT

Assembly points shall be identified in the project site, service offices, for assembly of persons during emergency. A board

is to be provided for easy identification of assembly point, wherever feasible.



14. Do's and Don'ts

a. Do's

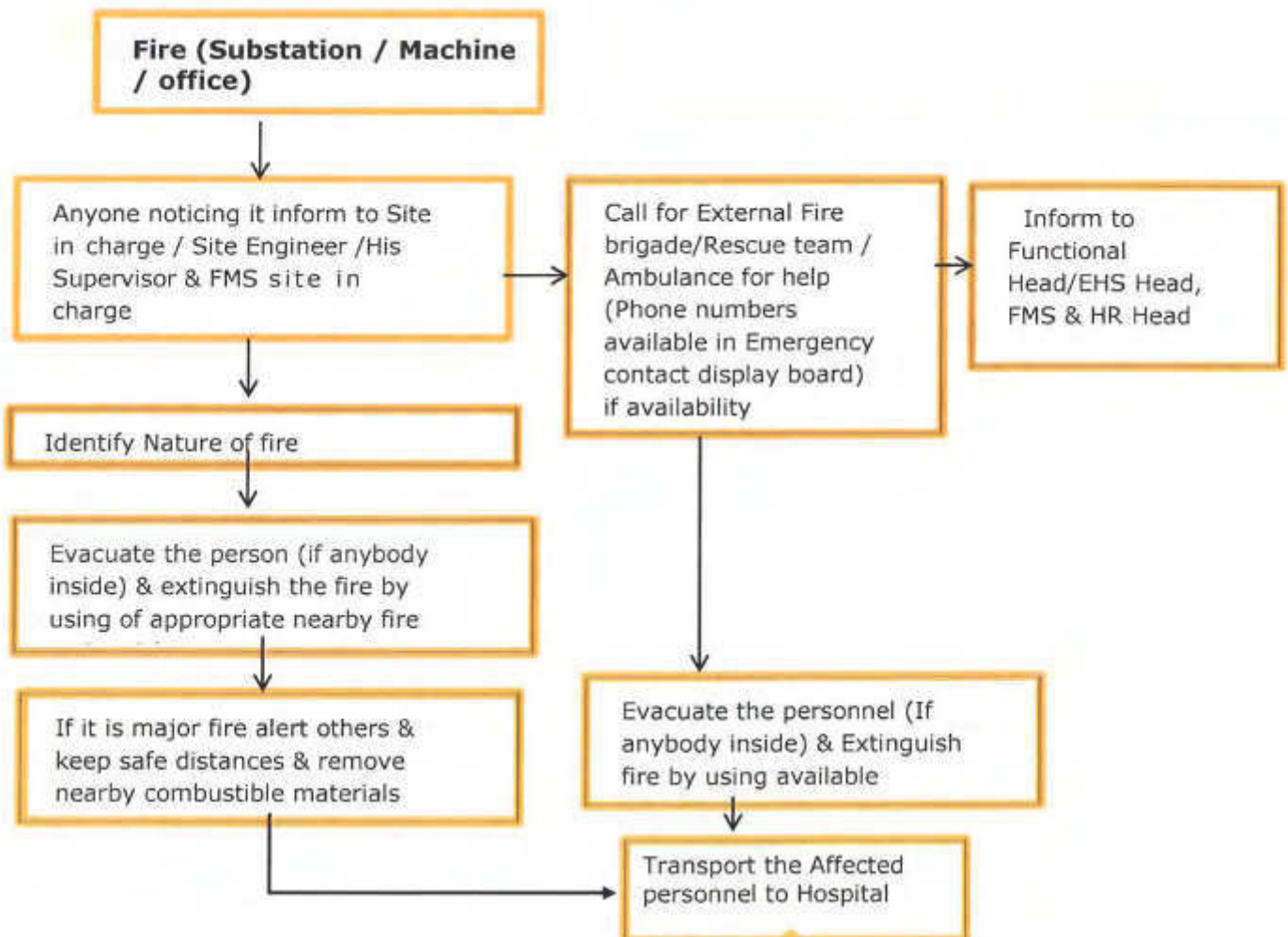
- On seeing an incident / abnormal fire / situation shall report to concern person.
- Do evacuation or need help for evacuation, follow supervisor instructed
- Assembled in assembled point if required.
- Take head count if required.

b. Don'ts

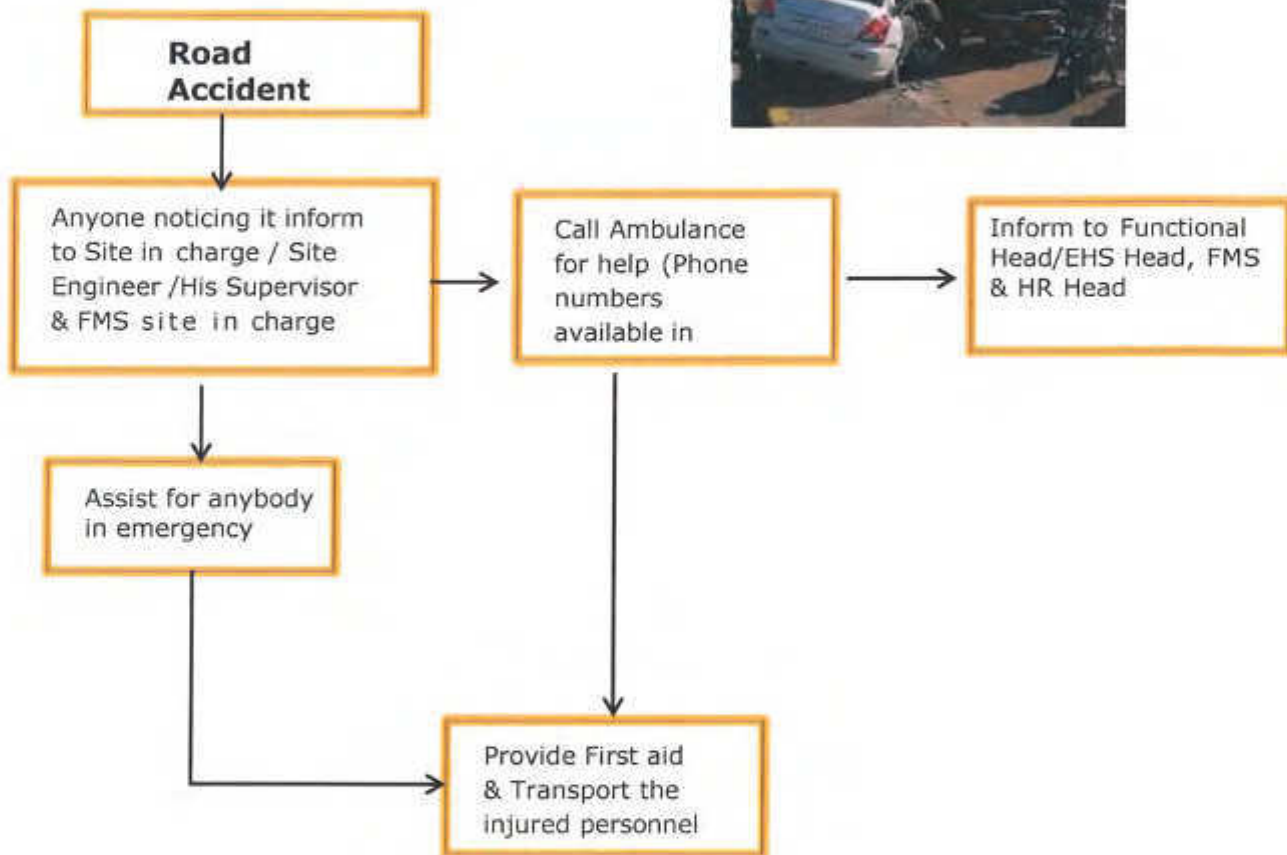
- Do not panic
- Do not communicate with any external agency, unless instructed
- Do not spread rumours
- Do not keep any telephone engaged for a long time
- Do not approach the emergency site as a spectator.

15. PROCEDURE STEPS FOR HANDLING EMERGENCIES

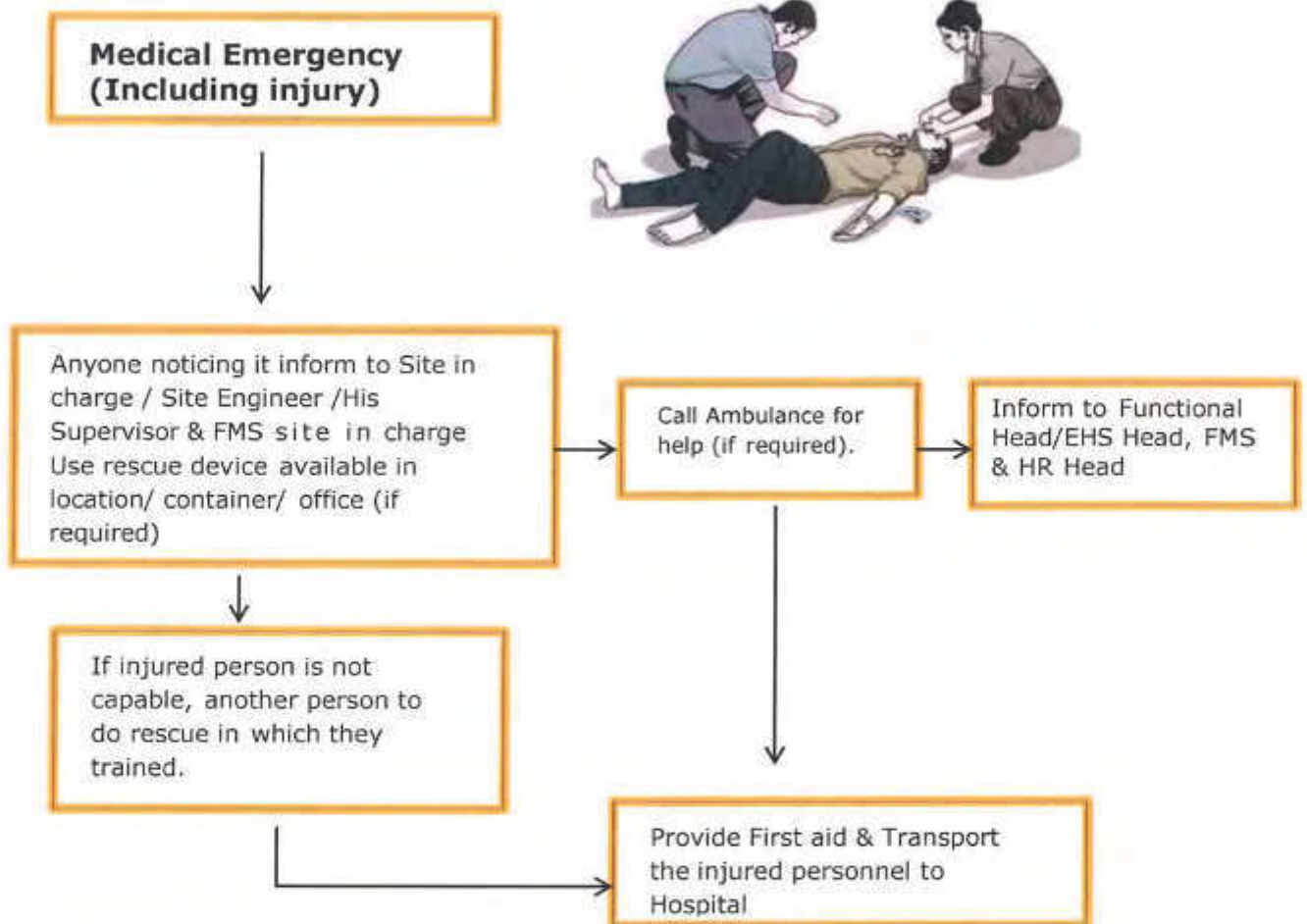
Fire at workplace



Road Accident



Medical Emergency (Including injury) inside WTG/Substation



Electrical Accident

Electrical Accident

Anyone noticing it inform to
Site in charge / Site Engineer
/His Supervisor & FMS site
in charge
Use rescue device available
in location/ container/
office/Substation (if required)



Cut out power
supply/Remove the person
from emergency spot by
using nonconductive
material (Act only if you
know about power supply)

Inform to
Substation and
get the line
clearance if
required)

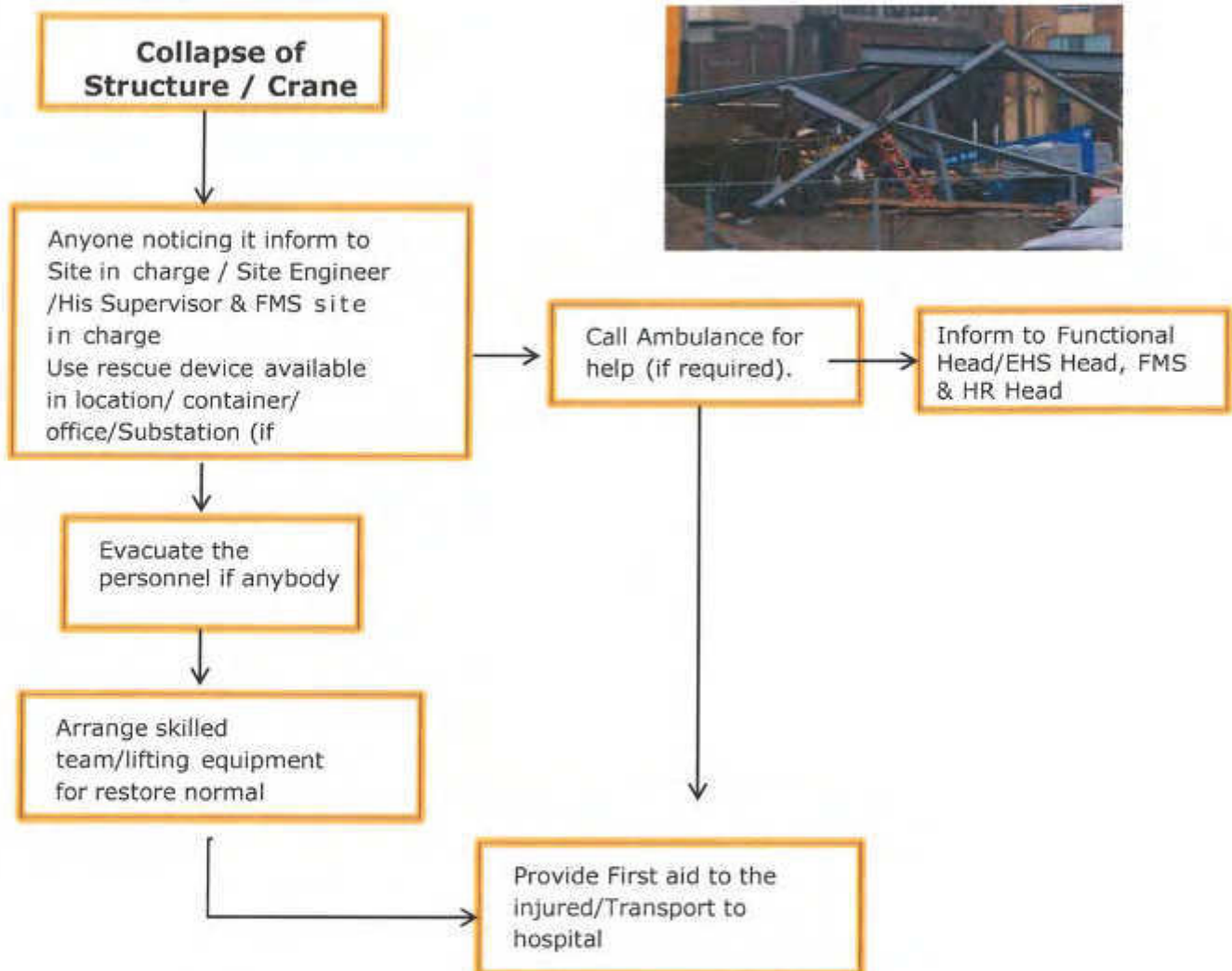
Call
Ambulance
for help (if
required).

Inform to
Functional
Head/EHS
Head, FMS &
HR Head

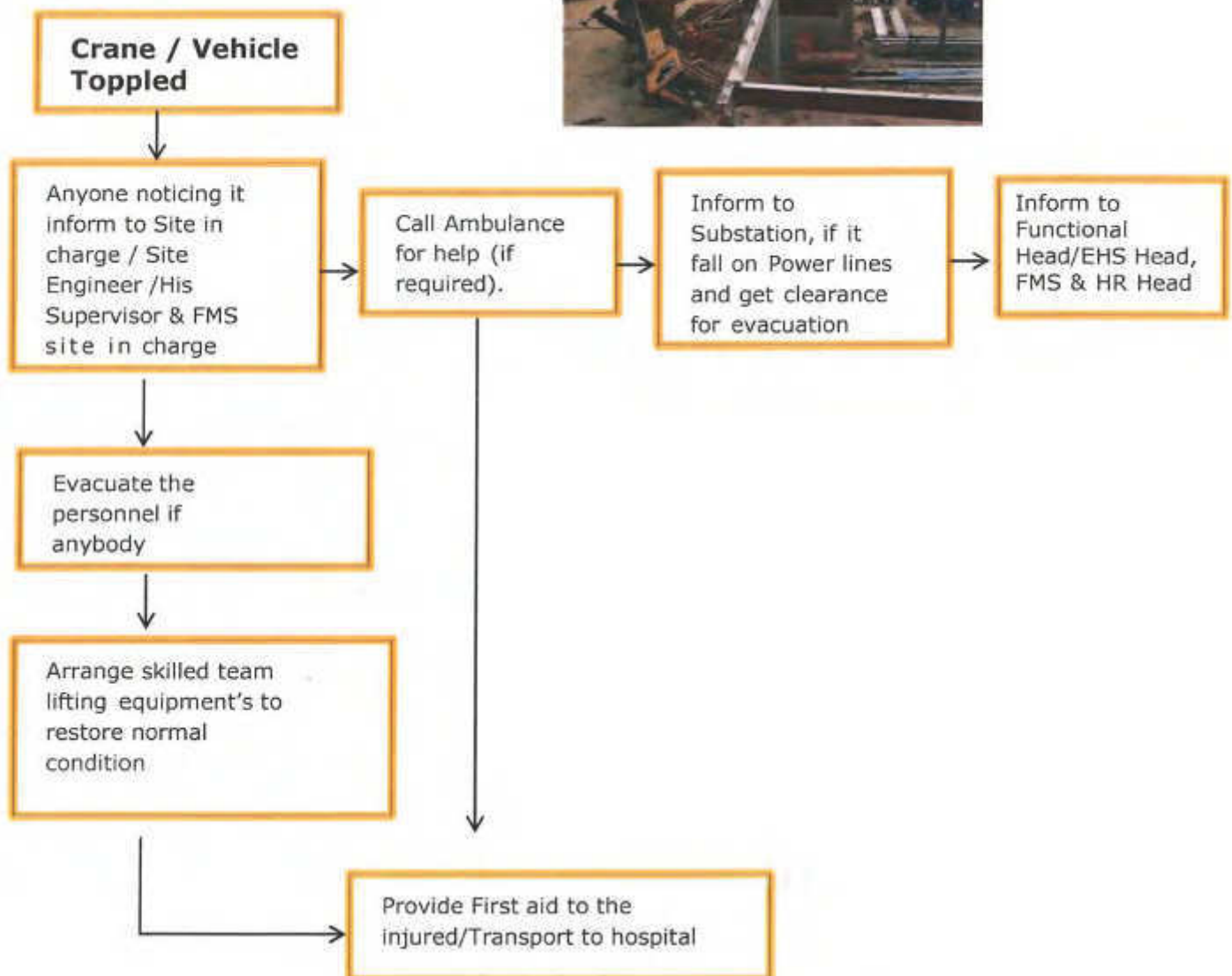
Whether injured
is Conscious /
Unconscious

Provide First aid (CPR) to the
injured / transport to Hospital

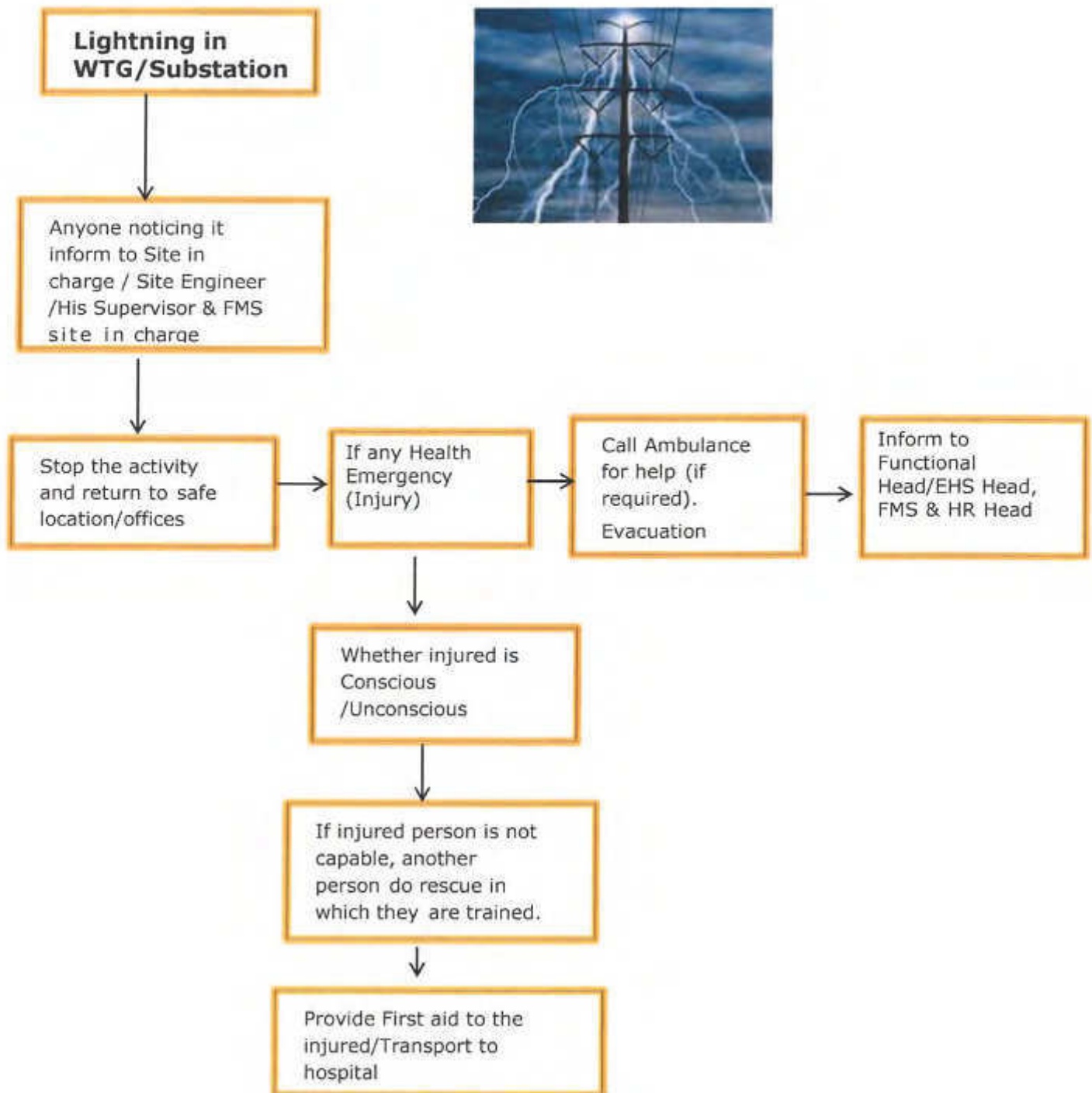
Collapse of structure / Crane



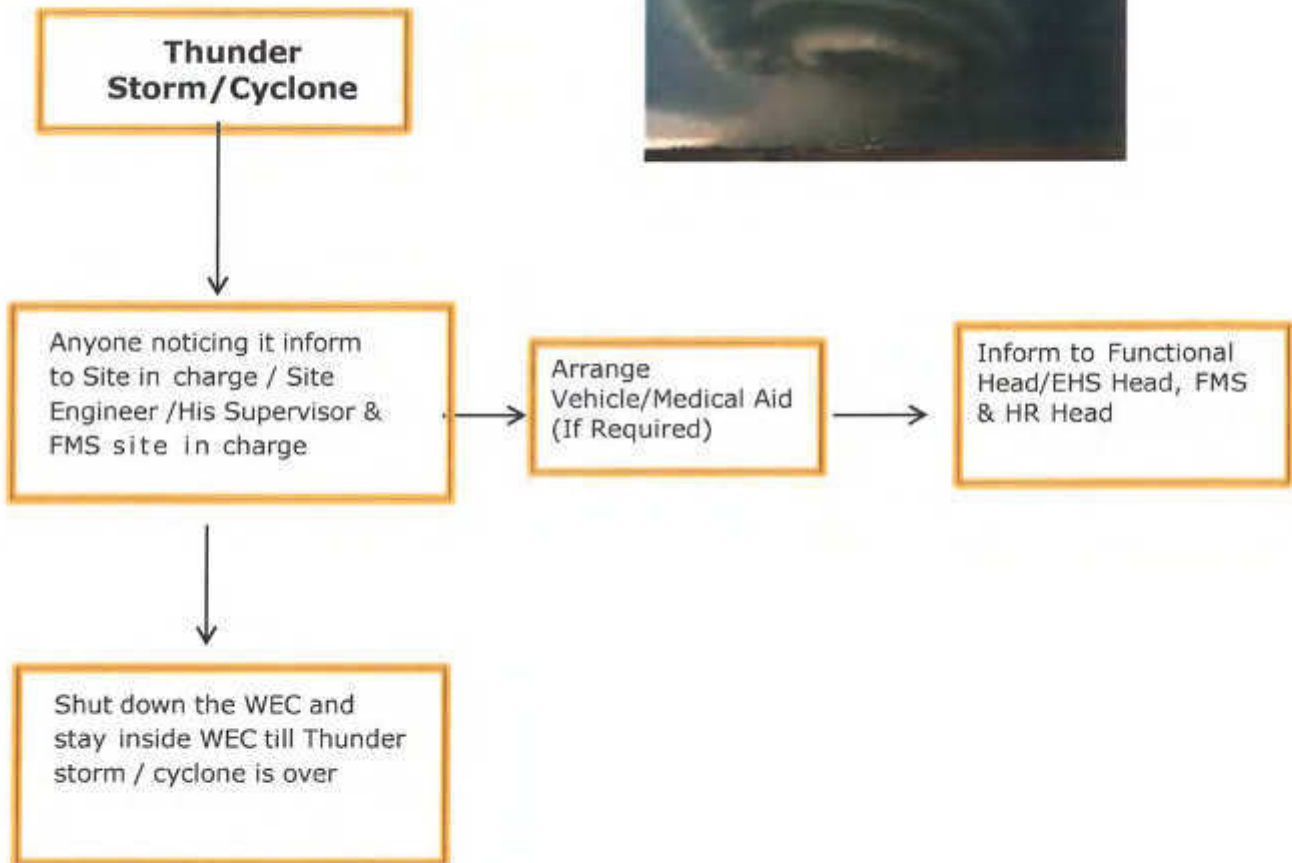
Crane / Vehicle Topped (Plain Road, Hill)



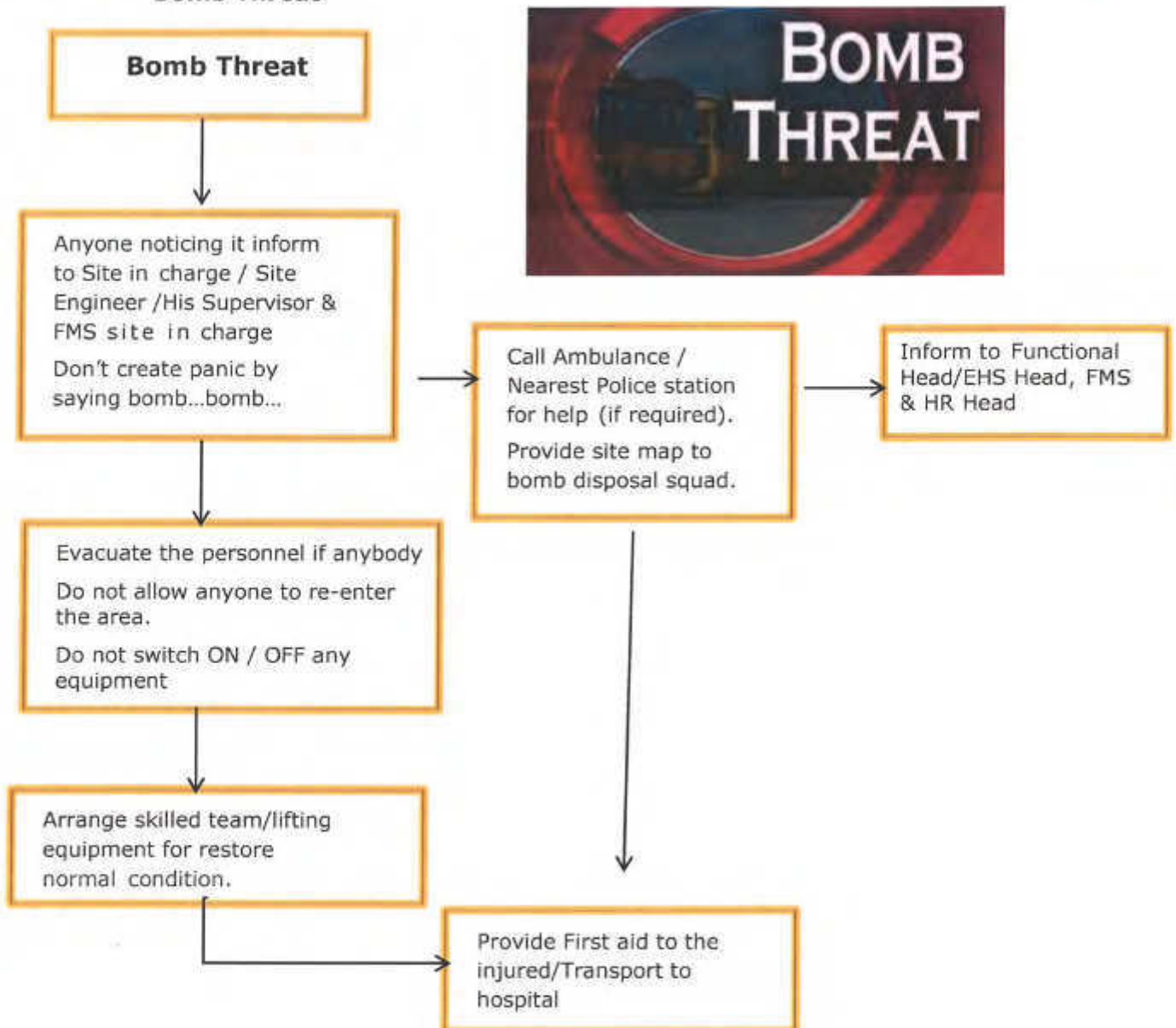
Lightning strike while working in WTG/Substation



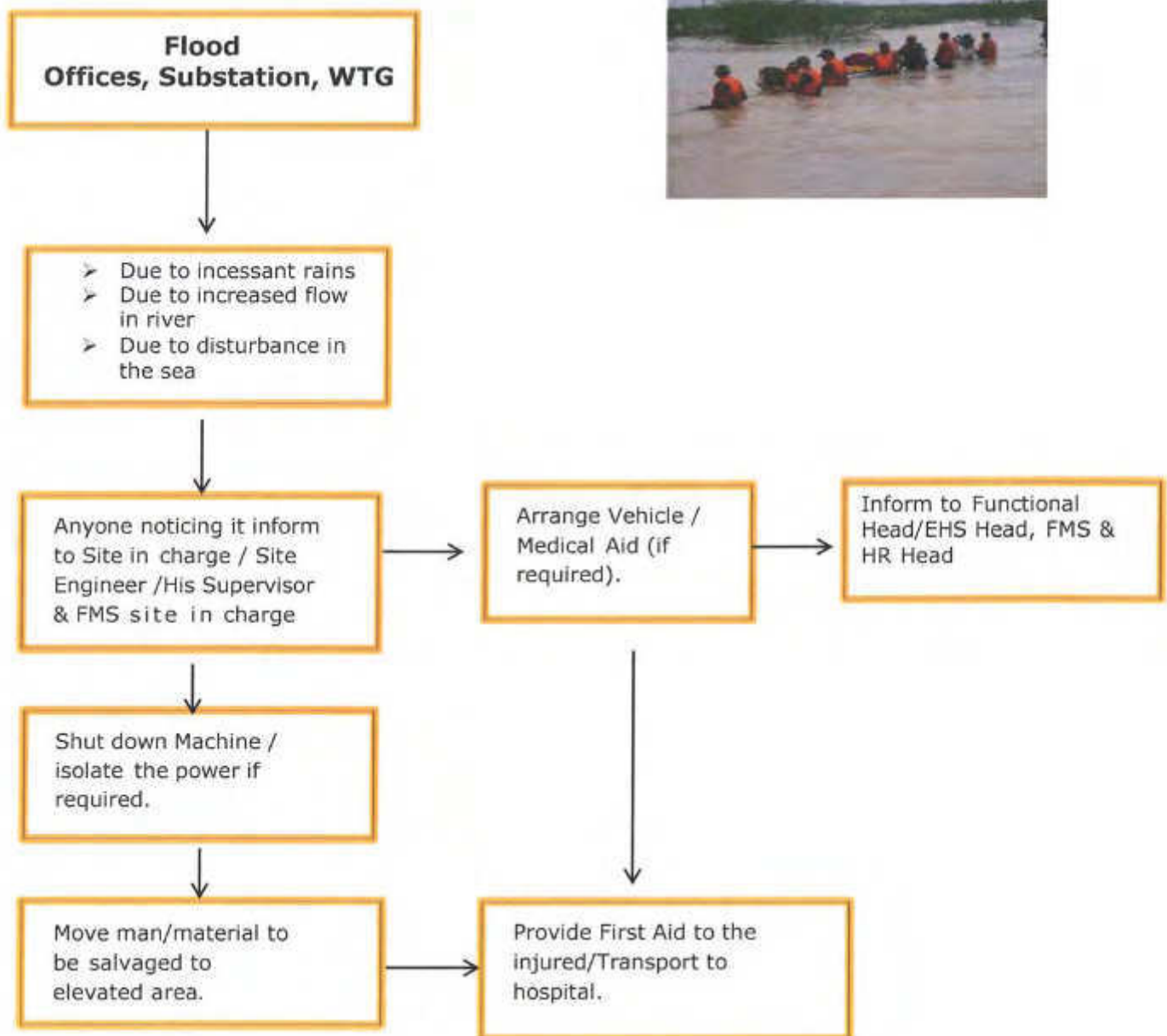
Thunder storm / Cyclone while working on WTG



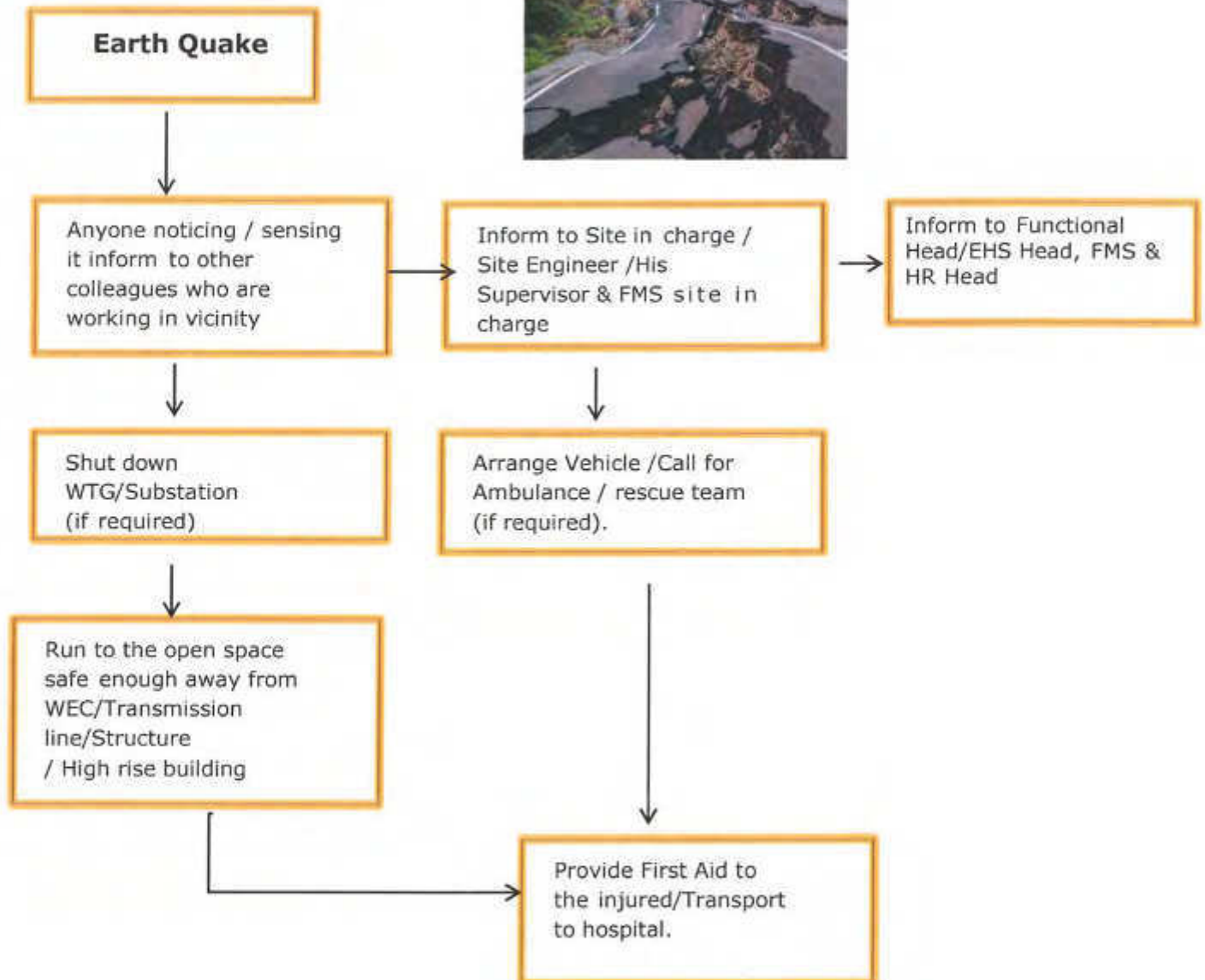
Bomb Threat



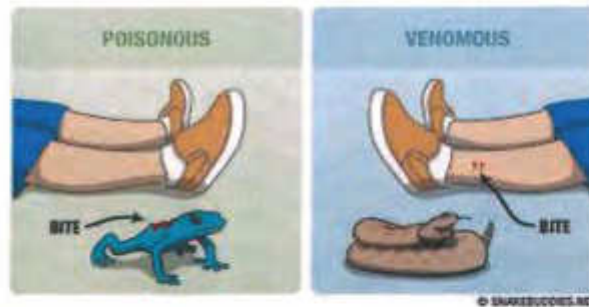
Flood (Offices / Substations / WTG)



Earth Quake



Insect or Snake Bite



Insect or Snake Bite

Anyone noticing it
inform to Site in charge
/ Site Engineer /His
Supervisor & FMS site
in charge

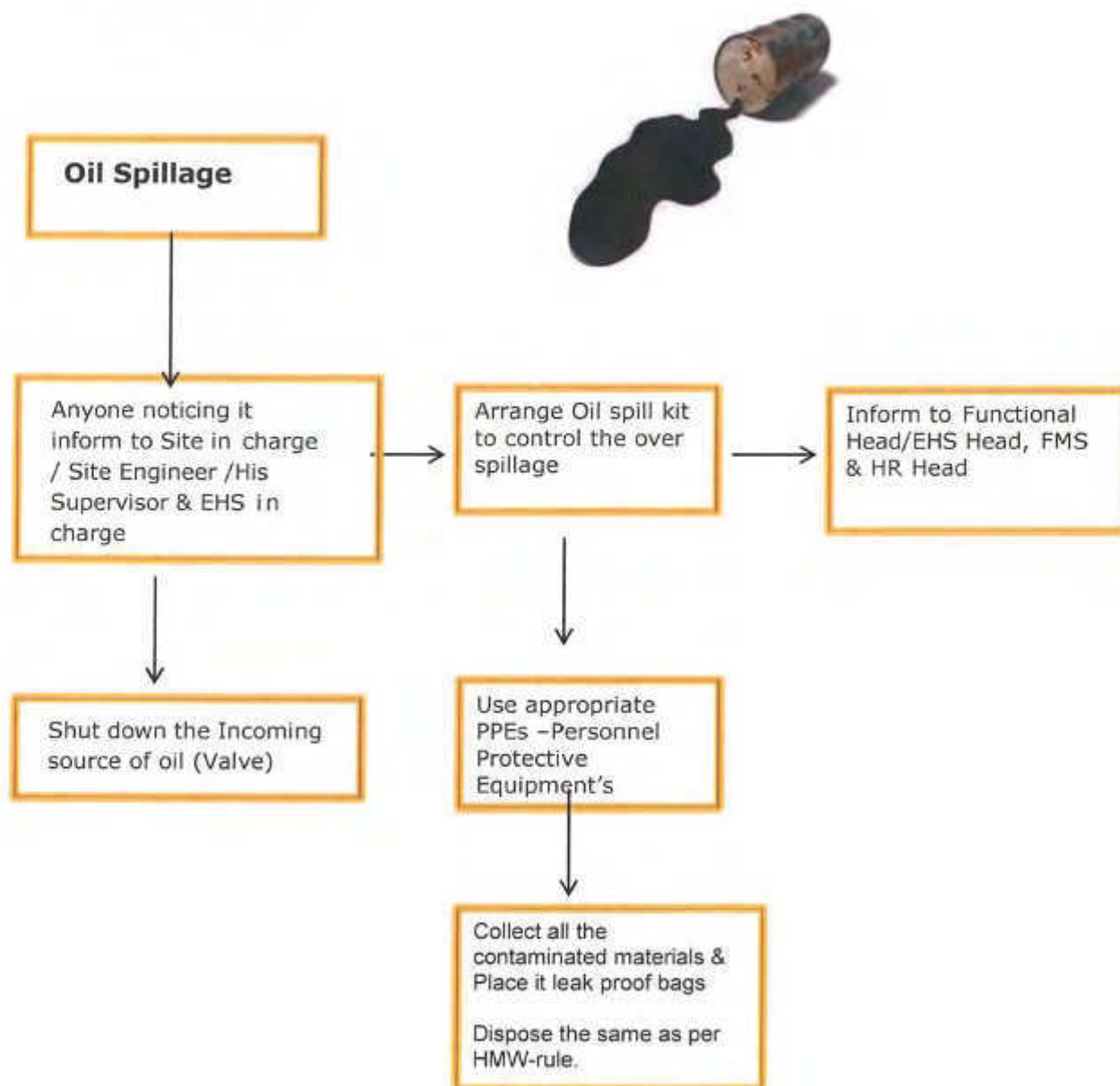
Arrange vehicle /
call for Ambulance
(if required)

Inform to Functional
Head/EHS Head, FMS &
HR Head

Inform to other people
to avoid going at place
of mis happening

Give First Aid/ taking the affected person to hospital

Oil Spillage



Photoplate I : Site Visit Photographs
Mytrah Vayu (Pennar) Private Limited (MVPPL)



WTG – MVPPL



Fire Extinguisher at Office Premises



Switchyard



Safety Instructions Displayed at Office Premises



Plantation in Office Complex



Basic First Aid Kit at Site



Storage Yard at Site



Oil Storage



Mechanical Spare Parts Storage at site



Battery Storage



Lubrication Item Storage

Photoplate I : Community Development Activities Photographs
Mytrah Vayu (Pennar) Private Limited (MVPPL)



Village Development Committee



Community Plantation



Eye Camp



Mineral Water Plant



Plastic Collection Drive by School Children



Water Filter at Anganwadi Centre

Reply to the ADB's Observations on ESDDR of Mytrah Vayu Pennar Pvt Ltd (MVPPL)

S.No.	Observations from ADB	IIFCL Reply to Observations	Updated ESDDR reference
1.	<p>We note that the sub-project under consideration comprises of 30 wind turbine generators of 2.1 MW capacity each spread over six villages of Vajrakarur mandal in Anantapur District that was commissioned in September 2012 (about 6.50 years back). The sub-project was implemented by MVPPL not in anticipation of finance from ADB. The ESDDR has confirmed that no environmental impact assessment study was undertaken for this sub-project. As a result, there is every likelihood that MVPPL might not have followed ADB's environmental safeguards related requirements during construction and operation & maintenance stages.</p> <p>MVPPL engaged a consulting firm to undertake a due diligence in 2016 from environmental (and social) safeguards related considerations of multi-lateral development banks (MDB) such as ADB. The ESDDR was submitted by a team of consultants in July 2016 (about 2.67 years back) to MVPPL. The consultants carried out review of associated documents made available by MVPPL and undertook a field visit during 20-21 May 2016 for assessment of implementation of environmental safeguards. This team held consultations with villagers and other stakeholders. Based on its review, the ESDDR had identified certain gaps in the implementation vis-</p>	<p>Updation of the ESDDR prepared by third party consultant is under preparation. Information related to corrective measures implementation has already been shared by the developer. Status of implementation of the corrective measures identified in the ESDDR will be reported in the updated ESDDR.</p> <p>It is noted that the updated ESDDR will be signed by IIFCL staff.</p>	<p>Status of implementation of the corrective measures identified in the ESDDR (July 2016) are reported in Table 4 of the updated ESDDR.</p> <p>ESDDR is signed by IIFCL staff.</p>

	<p>à-vis the requirements of the MDBs and India's environmental regulations; and recommended corrective measures (tables 5.1 and 6.3).</p> <p>The ESDDR submitted to ADB by IIFCL is not signed by the IIFCL officials (signed by the team of consultants engaged by MVPPL). IIFCL is requested to follow the practice of endorsing the ESDDRs as has been done in the past.</p> <p>Further, given that this ESDDR was prepared in July 2016, IIFCL is requested to provide an updated version of the ESDDR as on date that would also include the status of implementation of the corrective measures identified in the ESDDR (dated July 2016) to achieve compliance.</p>		
2.	<p>It is noted that the ESDDR has confirmed that none of the components of the sub-project were located within or close to (i) core, buffer and eco-sensitive areas of national parks, sanctuaries or bio-sphere reserves; (ii) forests; (iii) wetlands; (iv) areas of ecological sensitives; and (v) protected monuments of archeological, cultural or historical importance. While section 3.10 and table 5.1 of ESDDR have confirmed absence of endangered species of flora and fauna in the study area, table 3.10 has reported presence of <i>Panthera pardus</i> in study area. This may please be verified and reconfirmed. The ESDDR shall clearly define the study area considered for environmental impact assessment.</p>	<p>Developer has informed that during primary survey by the ESDD consultant, no endangered species of flora and fauna were evidenced. Table-3.10 presents the list of fauna based on secondary data of the region. However, identified species (<i>Panthera pardus</i>) was neither observed by site people nor reported by surrounding villagers.</p> <p>Developer has informed that WTGs and associated facilities with 2 km buffer area were considered as study area for impact assessment under ESDD.</p>	Already replied
3.	The ESDDR has also confirmed that the sub-	Bird and bat monitoring study for the sub-	Copy of Bird and Bat study report

	<p>project area and its surroundings do not fall under any major flyway or migratory routes. Therefore, no significant impacts on bird and bat life were anticipated in terms of mortality caused due to collision of birds and/or bats with wind turbine rotor blades. The REA checklist (dated 10 December 2018) submitted by IIFCL (unsigned) mentions that MVPPL informed it about a long-term bird and bat study that was conducted to assess the risk on bird and bats. IIFCL had requested MVPPL to share a copy of such monitoring study prepared for this sub-project. IIFCL is requested to provide its assessment on the findings of such study as well as attach the copy of the study in the updated ESDDR requested.</p>	<p>project has been conducted and developer has shared the report with IIFCL. IIFCL will provide its assessment on the findings of such study and attach the copy in the updated ESDDR.</p>	<p>is enclosed as Annexure VII of the ESDDR. Assessment of the findings of Bird & Bat study are given para 26 of the ESDDR.</p>
4.	<p>IIFCL shall also submit a duly signed REA checklist by its environmental experts and head of its Environment and Social Management Unit (ESMU).</p>	<p>Noted.</p>	<p>---</p>
5.	<p>It is further noted from ESDDR that the wind power projects required to obtain the consents to establish and operate in the year 2012 as per the then prevailing environmental regulations of India. IIFCL shall confirm that MVPPL had obtained the requisite regulatory permissions and provide copies of such permissions in the ESDDR. IIFCL shall also provide a copy of the Andhra Pradesh Pollution Control Board's (APPCB) order that exempted the wind power projects in 2015 from requiring to obtain such consents.</p>	<p>Developer has informed that, there was neither a practice of obtaining Consent from SPCBs by the Wind Developers nor did the SPCB insist such consents at that time. It is pertinent to note that all the wind power projects are setup pursuant to Power Purchase Agreements signed with State / Central Utilities.</p> <p>The status of all regulatory permissions will be provided with the updated ESDDR.</p>	<p>Status of all regulatory permissions is given in Table 3 of the ESDDR. Detailed note on Consent to establish and operate is also given in the Table.</p> <p>Andhra Pradesh Government order of 2015 is attached with the updated ESDDR as Annexure II.</p>

		Andhra Pradesh Government order of 2015 is available with IIFCL and will be attached with the updated ESDDR.	
6.	The ESDDR has further confirmed that MVPPL had not obtained authorization from APPCB for storage of hazardous waste. IIFCL is requested to provide the status of compliance along-with a copy of the said authorization.	Developer has informed that hazardous waste disposal lies with O&M contractor and all the formalities led down in the rules are followed. MVPPL, as a principal employer ensures that the same. The status of all regulatory permissions will be provided with the updated ESDDR.	Hazardous waste management details are provided in Table 3.
7.	The ESDDR had recommended that MVPPL should establish an environmental and social management system (ESMS) for the sub-project. IIFCL to confirm whether an ESMS has been established by MVPPL and the status of its functionality while submitting the copy of ESMS with updated ESDDR as requested above.	Environmental and Social Management System covering the Environmental, Health, Safety and Social requirements throughout the project life cycle, has been developed by Mytrah Energy (India) Private Limited (MEIPL) which is implemented at MVPPL also. Copy of ESMS will be submitted with updated ESDDR.	The ESMS is developed and is being implemented at MVPPL. Copy of the ESMS is enclosed as Annexure VIII of the ESDDR.
8.	It is also noted from the REA checklist that MVPPL has developed detailed environmental, health and safety guidelines to handle community health & safety related risks during construction and operation phase of the sub-project. A copy of such guidelines and the status of its implementation may please be included in the updated ESDDR.	Community health and safety management plan is available for the sub-projects. Copy of the plan and status of its implementation will be included in the updated ESDDR.	Community Health and Safety Management Plan and its implementation is attached as Annexure XII and XIII, respectively of the ESDDR.
9.	Based on the information furnished, the proposed sub-project appears to qualify as of environment category B, subject to the responses from IIFCL as	Noted	Category of sub-project is given in Section 19 of the ESDDR.

	requested above.		
10.	The sub-project was commissioned in 2012 without the knowledge of ADB financing, and therefore, it is unlikely to have followed ADB's SPS 2009 related requirements during construction as well as operation and maintenance stages.	Agreed	----
11.	During due diligence study performed by the team of consultants engaged by MVPPL in 2016, certain safeguard related gaps including lack of adherence with India's environmental regulations were identified and corrective actions have been recommended to achieve compliance. IIFCL needs to confirm that those corrective actions have been taken by MVPPL to bridge the identified gaps, achieved regulatory compliance, and that the sub-project is now in compliance with the agreed safeguards related requirements (as per IIFCL's ESSF 2013 and SPS 2009 applicable for this loan) for take-out financing.	Noted. Confirmations and compliances will be provided in the updated ESDDR.	<p>Compliance status is given in Table 3-5 of the updated ESDDR.</p> <p>The sub-project is financed by IIFCL under Takeout scheme. It is in compliance to the ESSF (2016 – Applicable to current Tranche as per PAM – Section VII Safeguards Para 26) and ADB SPS, 2009.</p>
12.	IIFCL shall also undertake a field visit to verify and confirm that there are no residual environmental impacts as on date due to implementation of the sub-project (given that the ESDDR is dated 2016), and prepare an updated ESDDR with requested details, and submit its duly signed copy by IIFCL's ESMU for ADB's review.	Noted. Updation of ESDDR based on information shared by developer is under process. Field visit is to be undertaken by IIFCL to verify and confirm that there are no residual impacts as on date. Since elections going on in India, therefore, site visit could not be undertaken and will be taken up shortly.	Site visit was conducted by IIFCL staff on 14.06.2019 along with ADB Mission with Independent Evaluation Department.