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# IMPLEMENTING ENVIRONMENT SAFEGUARDS: RECURRING CHALLENGES

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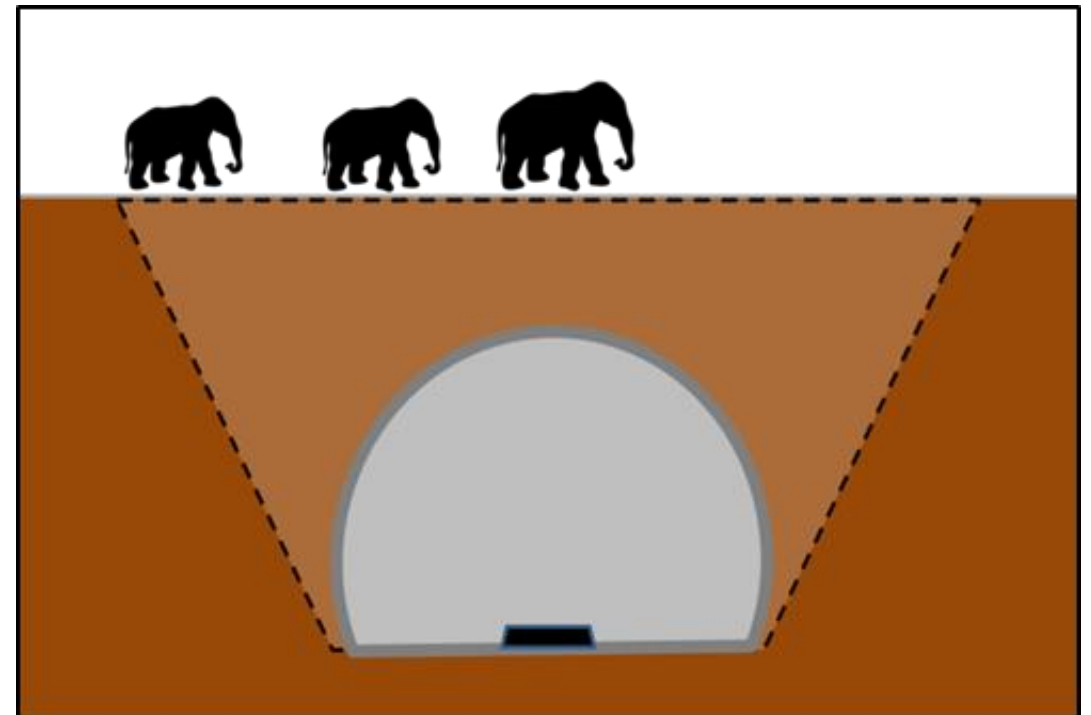


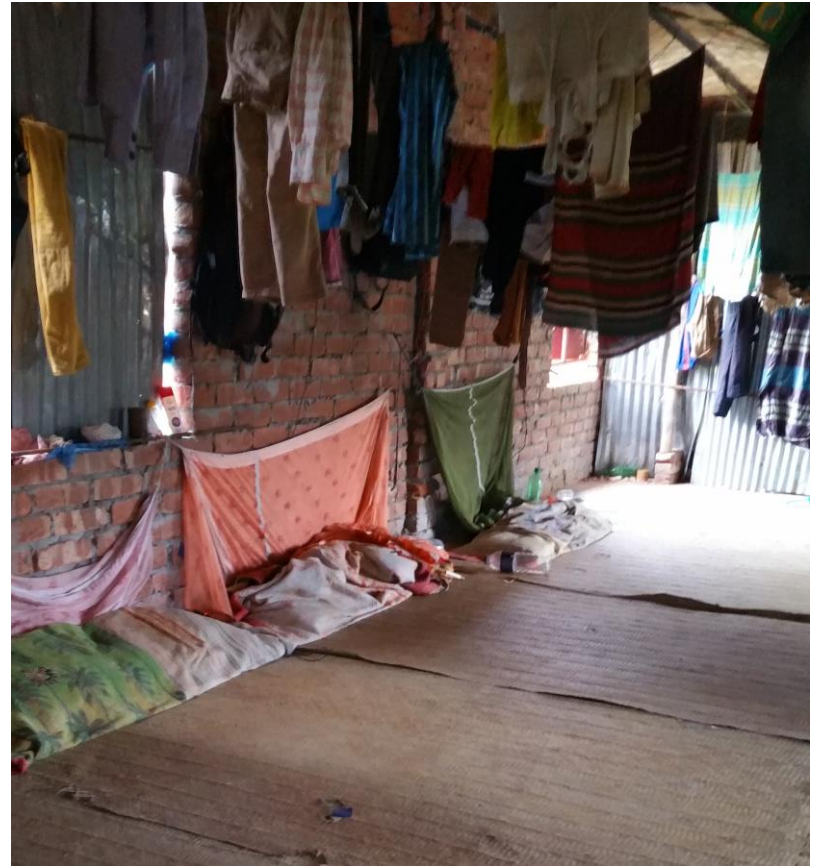
## Ecological impacts:

- Habitat fragmentation and destruction
- Loss of biodiversity
- Pollution of marine and aquatic ecosystems

# Solutions applied to address ecological impacts

- Minimize direct project footprint
- Modify construction timing
- Wildlife overpasses
- Wildlife underpasses
- Use nature based solutions (bioengineering)





# Poor Occupational Health and Safety

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# Efforts made to improve OHS



Continuous training and monitoring



Stringent OHS clauses in contract documents



Delay payments



Impose fines

# Compensatory afforestation

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WHERE TO PLANT THE  
TREES?

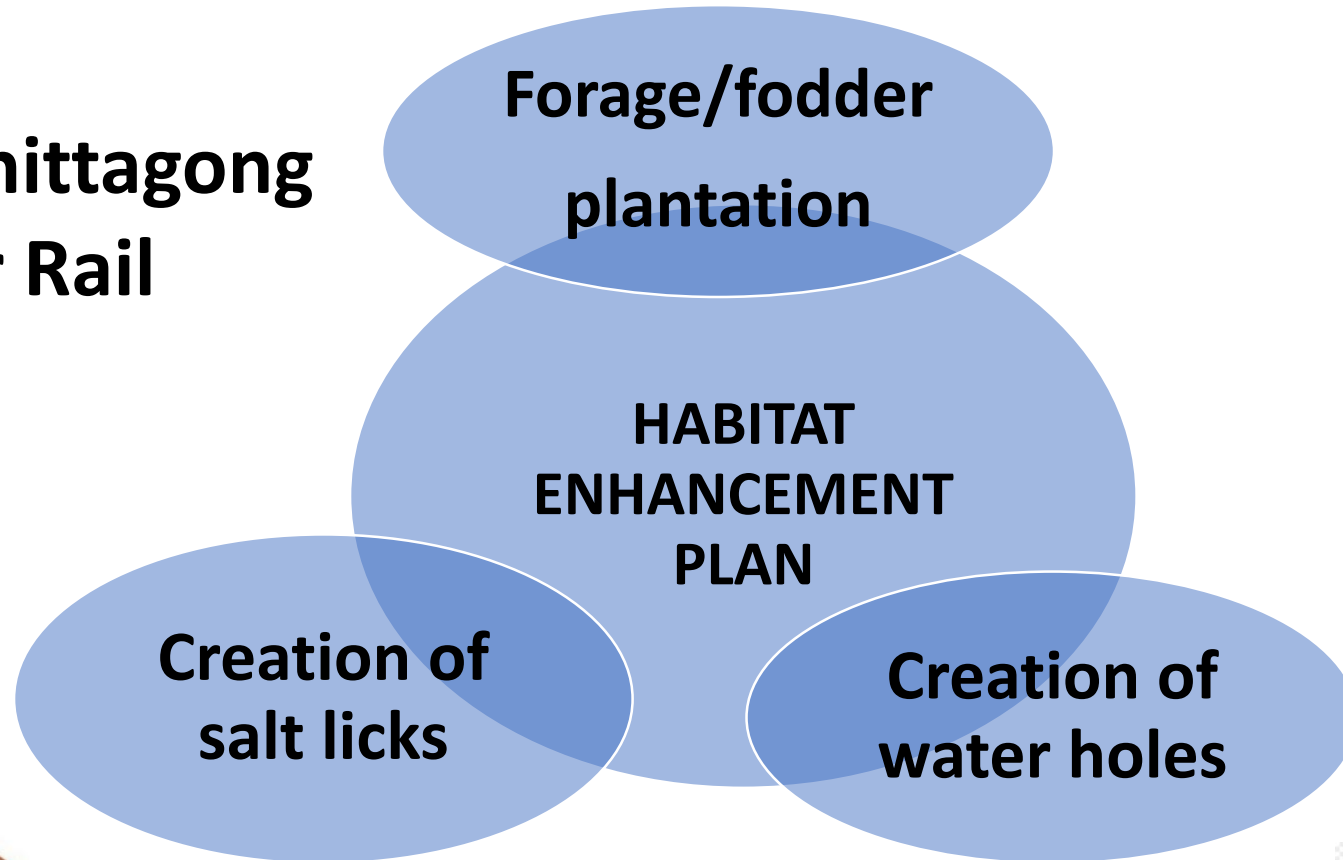


WHO PLANTS THE  
TREES?



WERE THE TREES  
ACTUALLY PLANTED?

# Example: Bangladesh Chittagong – Cox’s Bazaar Rail Project



Bangladesh Railways

Memorandum of Understanding

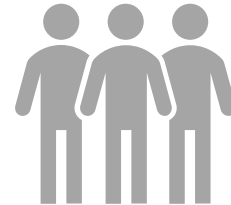


Forestry Department

# Inadequate environment consultants/inputs



Challenging to convince EA to recruit external monitor for environment category A projects



Missing environment consultants under the supervision team



Person month inputs are too less



# Measures taken to improve consultant inputs

No External  
Monitor = No loan

Ask EA/CSC to  
recruit required  
expert or increase  
person months

Provide support  
through ADB TA



## Contractor related challenges

- Unaware about the EMP
- No incentives to comply with the EMP. No penalties or insignificant penalties
- Cutting costs – leading to poor EMP compliance

# Measures to address contractor related challenges

Training and close monitoring

Ensure environment clauses and EMP are included in the bidding documents

Impose fines/penalties?

Withhold payments?



THANK YOU!!!