ABSTRACT

Forests – Wildlife – Announcement – Human Elephant Conflict - "Resolving Human elephant conflict through remote based technology in Coimbatore" – A sum of Rs.724.00 lakh sanctioned – Orders issued.

ENVIRONMENT AND FORESTS (FR.5) DEPARTMENT

G.O.(D) No.303

Dated: 20.11.2019
விகாரி, கார்த்திகை– 04
திருவள்ளுவர் ஆண்டு 2050
Read:

From the Principal Chief Conservator of Forests (HoD) letter reference No.J3/32775/2019, dated: 09.07.2019

ORDER:-

The Hon'ble Minister (Forests) has made the following announcement on the floor of Assembly on 01.07.2019 under Announcement No.2 as follows:-

அறிவிப்பு எண்.2 கோயம்புத்தூரில் தொலை உணர்வு கருவிகள் மூலம் மனித–யானை மோதல்களுக்குத் தீர்வு

"மேற்கு மற்றும் கிழக்குத் தொடர்ச்சி மலைப் பகுதியை ஒட்டியுள்ள தமிழகக் கிராமங்களில் மனித–யானை மோதல்கள் நாளுக்கு நாள் அதிகரித்து வருவதுடன் வேளாண் குடிமக்களுக்கு பயிர்ச் சேதமும் மனித உயிரிழப்பும், உடைமைகளுக்குச் சேதமும் உண்டாகிறது. கடந்த இரண்டு வருடங்களில் 20 மனித உயிர் இழப்புகள், 17 மனித காயங்கள், மனித உடைமைகளுக்கும் பயிர்களுக்கும் அதிக அளவிலான சேதம் காட்டு யானைகளால் ஏற்பட்டுள்ளது. யானைகளை கட்டுப்படுத்தும் பணியில் ஈடுபடுத்தப்படும் பணியாளர்களின் சிரமத்தை குறைக்கும் விதத்திலும், பொது மக்களின் பாதுகாப்பு கருதியும் வனப்பகுதியிலிருந்து மனித வாழ்விடங்களுக்குள் யானைகள் புகுவதை கண்காணிப்பதற்காக, செயற்கை நுண்ணறிவினைக் கொண்டு தொலைதூரக் கட்டுப்பாட்டு தெர்மல் கேமரா, கண்காணிப்பு படப்பிடிப்பு கருவி, கட்டுப்பாட்டு அறையுடன் கூடிய முன்னெச்சரிக்கை அமைப்பு கோயம்புத்தூர் வனக்கோட்டத்தில் 2019–2020 ஆம் ஆண்டு 7.24 கோடி ரூபாய் செலவில் ஏற்படுத்தப்படும்."

(P.T.O.)

2. In the letter read above, the Principal Chief Conservator of Forests (HoD) has sent necessary proposal for "Resolving Human elephant conflict through remote based technology in Coimbatore" during the year 2019-2020 at a cost of Rs.724.00 lakh. He has proposed Artificial intelligence based mitigation project for Human-Elephant conflict. Thermal imaging cameras are devices that translate thermal energy (heat) into visible light in order to analyse a particular object or scene. Thermal imaging cameras are sophisticated devices that process the captured image and display it on a screen. The proposed technology can be used to locate the elephants and apprehend suspects, conduct search of elephants and rescue operations. They are effective during day and night. They detect the movement of animals (even human) by detecting the body temperature of the animal / human. This system also involves the community based crop protection method. Here the alert is given to people to protect their lives and properties.

Objective of the Project:

- Wireless Intranet Back Bone for Trip Wire & SMS Alert without GSM Network
- Solar Powered Wireless Elephant Trip Wire EWS, with placement of IR Detectors on both sides of the track throughout the Danger Zone
- Solar Powered Wireless Day / Night IR / Thermal Camera Video Surveillance with Artificial Intelligence (AI) based Analytics, for 24/7 Monitoring of Danger Zones
- SMS alert to Railways Control Room with GPS Coordinates of location where Elephants are standing near the track, so they can warn approaching locomotive drivers accordingly deploying the following High Tech Solutions in Conflict Prone Areas:

    i.   Solar Powered Strobe Lights & Sirens in the Buffer Zones
    ii. Audio/Visual Buzzer & Mobile App on Locos to warn Drivers that elephants are near the track
    iii. Image Processing Artificial Intelligence (AI) Early Warning System
    iv. Image Processing Artificial Intelligence (AI) Camera Trap Early Warning System
    v.   Buried Cable Artificial Intelligence (AI) Early Warning System
    vi. Artificial Intelligence (AI) based Early Warning System using Geophones
    vii. Artificial Intelligence (AI) based Applications using Drones.

3. Therefore, the Principal Chief Conservator of Forests (HoD) has requested to sanction a sum of Rs.724 lakh for implementation of the scheme of "Resolving Human elephant conflict through remote based technology in Coimbatore"

(P.T.O.)

4. The Government after careful examination of the proposal of the Principal Chief Conservator of Forests (HoD), accord administrative sanction for a sum of Rs.724 lakh (Rupees Seven Crore and Twenty four lakh only) for implementation of the scheme of Resolving Human elephant conflict through remote based technology in Coimbatore for the following item of works:-

S. No	Description	Unit Price	Quantity	Amount in INR
1.	Human-Elephant conflict Mitigation cell in Additional Principal Chief Conservator of Forests & District Forest Officer's office	6,90,000	2 Nos.	13,80,000.00
2.	Setup Cameras and other systems at Range Offices	97,59,207	7 Ranges	6,83,14,449.00
3.	Extension of Railway Track Elephant Early warning system.	27,07,400	1 No.	27,07,400.00
			Grand Total	7,24,01,849.00 or 7,24,00,000.00

5. This order issues with the concurrence of the Finance Department vide its U.O. No. 57948/Fin (AHD&F)/2019, dated 15.11.2019.

(BY ORDER OF THE GOVERNOR)

SHAMBHU KALLOLIKAR
PRINCIPAL SECRETARY TO GOVERNMENT

To
The Principal Chief Conservator of Forests (HoD), Chennai-15.
The Principal Chief Conservator of Forests and Chief Wildlife Warden, Chennai-15.
The Pay and Account Officer (Concerned) Chennai – 35 (Through the Principal
    Chief Conservator of Forests and Chief Wildlife Warden, Chennai-15.)
The Resident Audit Officer, Chenai-9.

Copy to:
The Finance (AHD&F / BG I / BG.II) Department, Chennai – 9.
The Special Personal Assistant to Hon'ble Minister (Forests), Chennai-9
The Private Secretary to Principal Secretary to Government,
 Environment and Forests Department, Chennai-9
Stock File / Spare Copy.

/FORWARDED BY ORDER/

B. Sulochana 20/11/19.
SECTION OFFICER