

## **TOR FOR X-RAY MACHINES AND ONLINE UPS MAINTENACE SERVICES**

### **Background of the Project:**

The International Organization for Migration (IOM) is part of the United Nations Systems as the leading international governmental organization promoting since 1951 humane and orderly migration for the benefit of all, with 174 member states and a presence in over 100 countries. IOM has had a presence in Nigeria since 2002.

Migrants actively contribute to positive development outcomes in both host and origin countries. Yet, they are often marginalized and face considerable barriers in accessing health care services; as a result, their ability to remain healthy and productive can be compromised. To this end, IOM operates Migration Health Assessment Centres (MHACs) in Abuja and in Lagos and now with extension to Benin City, providing migration health-related assistance for immigrants, refugees, asylum seekers and mobile populations. It's expected between 500 clients are visiting the MHAC facility in Abuja on daily basis and (1000 and 150 clients in MHAC Lagos and Benin respectively) for Chest X-rays.

The purpose of health assessments is to identify and address medical conditions of public health and public safety concern, and conditions impacting health and social services. IOM has bilateral agreements with the United Kingdom, Australia, New Zealand, United States of America, Canada, and South Korea to provide travel migration health assessments according to each country's specifications.

There are about 11 X-ray machines installed in the three IOM MHACs currently and all are from EcoRay brand from Korea and the models are EcoView 9Plus DR. Each X-ray machine has a backup online 80 KVA Arvi UPS from India.

The IOM Migration Health Assessment Centre (MHAC) Nigeria is seeking to engage a qualified Biomedical Engineering Service Provider for the purpose of maintenance services, repair of X-ray Machines in all her canters. The Biomedical engineering company will carry out annual maintenance of all the X-

ray machines and their UPS. They should be ready and available to provide 24/7 supports to all the IOM MHAC in Nigeria because of the nature of her services.

**OBJECTIVES:**

- To ensure Continue and uninterrupted maintenance services of all the X-ray Machines and their UPS.
- To provide prompt repair and replacement of won out parts of X-ray machines and UPS.
- To adjust or recalibrate the X-ray tube to ensure coherence radiation output without leakage.
- To ensure the UPS are functioning optimally by providing the needed power out require for the X-ray machines operation.

**Locations:**

This service will be required in the following locations.

1. MHAC Abuja: Four X-ray machines installed (Fixed DR Eco-ray Ecoview 9plus 150KV/630MAS) and four 80KVA Arvi UPS
2. MHAC Lagos: Six X-ray Machines installed (Same as above)
3. MHAC Benin City - Edo State: One X-ray machine installed (Same as above)

**Scope of Work:**

**PREVENTIVE MAINTENANCE**

The Vendor is required to routinely put in place services to retain the operation of the equipment and reduce the probability of its failure and will be carried out according to the Manufacturer's Preventive Maintenance Specifications which consists of Operational, Safety, Functional, and Reliability checks by inspection of operational safety, checking up on the proper functioning with high image quality and reliable operation, executing works of adjustments, settings, lubrication, and implementing preventive maintenance measures to prevent or minimize equipment failures. Preventive maintenance should include a minimum of 2 visits per annum for correction of defects and calibration, elimination of defects resulting from natural wear and tears, and replacements of components as have become of no use by natural wear and tear.

**CORRECTIVE MAINTENANCE**

The Vendor is expected to come up with a measure designed to put back equipment into use in the event of unexpected and/or expected failure to be used only after a malfunction

or failure has occurred. IOM will require a repair service in case of equipment breakdown or failure.

**Inputs Provided By IOM And The Vendor:**

- IOM is required to pay the service maintenance and the Corrective maintenance fee.
- The input required by the vendor is to schedule the maintenance service duration and make arrangement with his trained engineer to responds to calls from IOM.
- Both parties are required to sign a contractual agreement.

**Deliverables:**

- Annual Preventive maintenance reports for all the X-ray Machines and UPS
- Corrective Maintenances reports for all the X-ray Machines and UPS.
- Frequency: Annual preventive maintenance should be conducted twice in a year minimum.

**Qualifications, Specialized Experience, and additional competencies:**

- The company must be registered with the CAC.
- The Company must provide authorization letter or an MOU from ECORAY as a distributor or partner.
- The company must be Registered and licensed by NNRA to import medical equipment into Nigeria.
- The company must be a certified biomedical company.
- The company should be able to respond promptly to calls from MHACs.
- Project Manager should have experience as a biomedical, electrical, or electronic engineering.
- Ability to work with tight deadlines.

## TECHNICAL EVALUATION

Criteria	Requirement	Rating
<p><b>Authorization and Certification</b> Ability to import a faulty software or a faulty machine part directly from the X-ray Machine manufacturer (Eco ray Korea) without following through a middleman which may cause unnecessary delay to the end user (IOM).</p>	Authorization letter/MOU from Ecoray Korea and Arvi Indian as a distributor, NNRA license to import X-ray Machine and Certificate of authorize Engineer (CAE)	<b>40 Points</b>
	NNRA license to import X-ray Machine and Certificate of authorize engineer only	25 points
	Authorization letter/MOU from Ecoray Korea & Arvi India as a distributor	20 points
	NNRA license only or Certificate of authorize engineer only	15 points
<p><b>Experience</b> Provide evidence of experience – list of clients for similar services in the last 5 years as those required by IOM, indicating description of contract scope, contract duration, contract value, contact references</p>	5 or more centres receiving similar services from the vendor including a tertiary hospital with supply of Ecoray	<b>20 Points</b>
	5 or more centres receiving similar services from the vendor including a tertiary hospital with supply of any brand of X-ray Machine.	10 points
	3 or more centres receiving similar services from the vendor including a tertiary hospital with supply of any brand of X-ray Machine	5 points
<p><b>Qualifications</b> List of all technical personnel and their Certifications who can competently carry out any trouble</p>	A vendor with list of 7 or more technical staff who can handle any technical issues single handedly.	<b>20 points</b>

shooting and corrective maintenance.	A vendor with 5 or less list of staff with technical competence.	10 points
	A vendor with 3 or less list of staff with technical competence.	5 points
<b>Office Address and locations</b> Nearness of the office address to MHAC and having a physical office in all the MHAC 3 Locations.	A vendor with an office address that is 30 minutes away from MHAC with office location at Abuja, Lagos, and Benin.	<b>20 points</b>
	A vendor with an office address that is 30 minutes away from MHAC with office locations at Abuja, Lagos.	15points
	A vendor with an office address that is 30 minutes away from MHAC with office location at Abuja only.	10 points
	A vendor with an office address that is 30 minutes away from MHAC with office location at Lagos only	10 points
	A vendor with an office address that is 30 minutes away from MHAC with office location at Benin only	5 points