

File form: 655 Interim Report for the Eagle Foundation – July 2023

Digital X-ray machine for IMPACT Bangladesh's Jibon Mela hospital in Meherpur District, Bangladesh

Funds received: 21.12.22

Amount of grant: GBP 26,817

Conversion rate: Exchange rate based on 1 GBP = 120.368 BDT 23/11/22

Total number of beneficiaries: 35,000 people are expected to benefit over its lifespan of 10 years

Expenditure: GBP 25,817 **Amount remaining:** GBP 1,000

Background:

Our trusted partner IMPACT Foundation Bangladesh (IFB) has worked extensively in Meherpur district since 2004, running the Jibon Mela hospital and the Nurses Training Institute as well as a community-based disability prevention and health improvement programme, including a safe water and sanitation and menstrual health programme.

IMPACT is very grateful for the opportunity to purchase a Digital X-Ray Machine to be installed in the Jibon Mela Hospital. This machine will replace the hospital's existing machine which was purchased in 2007 and in urgent need of an upgrade. Accurate diagnosis is essential for effective patient care and treatment and crucial for patient safety. It helps ensure that patients receive the appropriate treatment and interventions based on their condition. Incorrect or delayed diagnoses can lead to patient harm or adverse outcomes. Accurate diagnosis is fundamental for developing an effective treatment plan. A precise understanding of a patient's condition allows healthcare professionals to choose the most appropriate treatment options, medications, surgeries, or therapies tailored to the individual's specific needs.



IFB's previous machine which is more than 16 years old



IFB procured a Korean model - GXR-S series - DRGEM

The machine has the following functions:

- *Microprocessor controlled operation*
- *High Frequency inverter generator*
- *Workstation with large and wide LED monitor for image acquisition.*
- *One Flat Panel Detector to be used in the bucky table and another Flat Panel Detector as well as in the bucky stand for General X-Ray including Chest Radiography.*
- *Large Size Flat Panel Detector (17" x 17") for wide coverage of patient body*
- *9 (Nine) Mega Pixel Flat Panel Detector for High Resolution Image*
- *Imaging workstation with full system control capability*
- *Continuous Monitoring facilities of X-Ray Tube overload & anode heat storage capacity*
- *Anatomical programs (APR) is available*
- *Light beam collimation*
- *Optional features is available " RADMAX + AI module " of chest X-Ray Diagnostic Analysis*
- *Report (Quantitative Abnormality Scores) for Covid- 19 responsive solutions.*
- *DICOM interface for worklist, print & PACKs/ RIS*



The machine includes the following components:

- Generator
- X-Ray tube
- Tube stand
- Patient table
- Bucky stand (a device used in radiology to improve the quality of X-Ray images)
- Flat Panel Detector
- Dry Film Imager

IFB collaborated with the supplier PSM Enterprise to acquire the Digital X-Ray Machine, which was successfully delivered and installed in May 2023. To ensure proper utilization, two trained engineers provided comprehensive training sessions for the hospital staff. The machine is accompanied by a two-year warranty from the supplier, in addition to the manufacturer's warranty.

Expenditure:

Item	Budget	Expenditure
Digital X-Ray Machine (GXR-S series)	25,540	25,540
Project Management @ 5%	1,277	277
Grand total	26,817	25,817

Exchange rate based on 1 GBP = 120.368 BDT 23/11/22

The remaining balance of GBP 1,000 will be allocated towards project management activities for the duration of the grant period.