



## File form: 654 Interim Report for the Eagle Foundation – July 2023

### Digital X-Ray Machine for IMPACT Bangladesh's Community hospital in Chuadanga 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:

Thanks to the generous support of Fondation Eagle our trusted partner IMPACT Bangladesh (IFB) has been able to purchase a Digital X-Ray Machine for IMPACT Bangladesh's community hospital in Chuadanga District. Since 1993, IFB has established a wide ranging programme to prevent and treat needless disability, which includes taking medical services directly to remote communities ensuring healthcare and education is available for the poorest people.

IFB took the decision to build a multi storied hospital building in order to serve the growing population and respond to an increase in demand for healthcare services amongst the communities in Chuadanga. The hospital partially opened in 2022 and equipment and services were moved from their existing hospital building. Purchase of the Digital X-Ray Machine for the new hospital building will contribute to increased capacity and accurate diagnoses. It will enhance the hospital's imaging capabilities, streamline workflow, and improve patient care by providing high-quality images in a timely manner.

#### 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 procured a Korean model - GXR-S series - DRGEM*

IFB worked with the supplier PSM Enterprise to procure the Digital X-Ray Machine. The company successfully delivered and installed the machine in May 2023. Two trained engineers delivered training for hospital staff. The machine comes with a two year warrantee from the supplier as well as a manufacturer's warrantee.

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

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 balance of GBP 1,000 remaining will be expended on project management throughout the remainder of the grant period.



*PSM Enterprise staff delivered and installed the machine*