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FOOD CORPORATION OF BHUTAN LIMITED  
POST BOX NO: 080, PHUENTSHOLING-21101  
CHHUKHA: BHUTAN

FCB/HRAD/Const-3/607

23<sup>rd</sup> March, 2017

**AMENDMENT**

With reference to our NIT FCB/HRAD/Const-2/557 dated 17<sup>th</sup> March, 2017 which was published on 18<sup>th</sup> March 2017 in Kuensel. We regret to make the following amendment for the tender "Renovation of two non-functional chambers of Cold Storage Plant at Wangsisina, Thimphu". The bidders who have downloaded the bidding document, the following amendment have to be made in the Bill of Quantity (BoQ) and should be incorporated in the Bidding Document. The revised BoQ attached.

Inconvenience cause is highly regretted. For further clarification, please contact Estate Manager, HR & Administration Department, FCBL at 05-252505.

(Yogesh Nidi Thirwa)

**Offtg. General Manager**  
**HR & Administration Department**

**Copy to:**

1. Chief Executive Officer, FCBL, Phuentshogling for kind information.
2. Marketing Advisor, FCBL, Phuentshogling for kind information.
3. Sr. General Manager, QCD, TOC, FCBL for kind information.
4. Sr. System Manager, MS, TOC, FCBL for information and necessary action.
5. Offtg. GM, FAD (Evaluation Chairman) for information.
6. Mr. Tshering Dorji, MS, TEC for information and necessary action.
7. GM, FECD (Awarding Chairman) for kind information.
8. Ms. Penden Choden, MS, TAC for information and necessary action.
9. Sr. Regional Manager, FCBL, Samdrup Jongkhar/Gelephu for kind information.
10. Regional Manager, FCBL, Thimphu for kind information.
11. Estate Manager, FCBL, Phuentshogling for necessary action.

**Corporate Head Office:** Post Box No: 080, Phuentshogling. Telephone: 00-975 5-253824, 252375, 251786, 252560, 251739, 252560 (EPABX), 252241, 252104, 252350, 252505, 252859 Fax: 00-975 5-252289  
**Regional Offices:**  
Post Box No: 188, Thimphu. Telephone: 00-975 2-322877 Fax: 00-975 2-323957  
Post Box No: 166, Gelephu. Telephone: 00-975 6-251048 Fax: 00-975 6-251048

## Bill of Quantities (BoQ)

Name of work: Renovation of two non-functional chambers of Cold Storage Plant

Location: Wangsisina, Thimphu

Sub-Title: Bill of Quantity (BoQ)

Si/ No.	Description of Items	Qty	Unit	Rate (Fig)	Rate (words)	Amount (Nu.)
<b>A Main Power Supply Restoration for the Cold Storage Plant</b>						
1	Taking out of underground three Phase Defective Power Supply Cables in consultation with the Bhutan Power Corporation Limited (BPCL) and staking all types of materials within 50m lead.	250.00	m			
2	Providing and fixing of 70sq.mm underground Cable 4 wires with required lux, MCB, etc., complete and restoration of main power supply including making the surface good.	250.00	m			
<b>B Repairing &amp; Maintenance of 2 non-functional units, Cold Store</b>						
1	Providing and installation of Axillary Contractor 440V 15A, Potential Relay 440V 16A & Temperature display (Sub Zero).	4.00	each			
2	Repairing/Servicing/Replacement of 15 HP Compressor & Evaporators including oil gasket, Fans etc complete.	4.00	each			
3	Providing and refilling of Polyolester (POE) Compressor Oil (10Ltrs each).	40.00	ltrs			
4	Providing and Refilling of Refrigerant Gas R404A (20 kg each).	80.00	kg			

5	Dismantling and relocation of <b>Control Panel System</b> by providing copper cable, electrical wiring, casing & capping at the front of the Cold Store Structure	4.00	each			
6	Providing & Installation of new Digital Humidifier Controller/ Humidifier Sets including the electrical cable wiring, casing and capping at the front of the cold storage structure.	2.00	each			
7	Providing & Installation of rodent protection insulation for the doors complete.	2.00	each			
8	Providing and Applying the Silicone sealant and flashing of air leakage of cold rooms as required.	2.00	each			
9	Electrification by providing three phase power and 32A MCB as required and single phase Lightings by providing LED tube lights and controls.	4.00	each			
10	Providing and fixing of the Compressors foundation with nut and bolts, Compressors back & head pressure lines, pipe leakages, total system pressurized and evacuation including fitting testing of all equipments, electrical accessories fittings and trial run of cold storage. Pressuring and nitrogen flushing & vacuuming of entire system including TX valves & pressure release valves.	4.00	each			

11	Clearing and removal of landslide debris & surface materials for the clearing of Compressors covered by the landslide debris complete including the excavation & disposal within 50m lead and 1.5m lift & disposed soil to be neatly dressed. All Kinds of Soil. Site visit is mandatory.	1.00	Job			
<b>C Installation, Testing and Commissioning of 62.5 KVA Digital Generator (DG) Set.</b>						
1	Providing and fixing of earthing including all accessories, machinery enclosure, C.I cover plate having locking arrangement, watering pipe with excavation and refilling work including charcoal or coke and salt complete as required as per standard earthing drawing. With G.I earth plate 600x600x6mm.	3.00	each			
2	Providing and laying earth connection from earth electrodes in 15mm dia. G.I pipe (3/4") from earth electrodes as required as per guidance of standard earthing drawing. With 4.06mm dia. (8SWG) copper wire.	50.00	m			
3	Supplying and fixing of armoured power cable 3.5 core aluminium- PVC insulated and sheathed, 50sq.mm	50.00	m			
4	Supplying and fixing of Aluminum Lugs 50sqmm.	16.00	each			
5	Supplying and fixing of Nut & Bolts 10mm x 2".	20.00	each			

6	Providing and fixing <b>Change Over Switch</b> 200A 4Pole including its installation fittings complete such as wooden box, nails, GI Saddle and Royal Plug 1".	1.00	each			
7	Providing and laying Second-Class brick work in foundation and plinth, and base slab for the Digital Generator (dimension: 4x2x0.8m). In cement mortar 1:4 with neat finish plastering.	6.40	sq.m			
8	Providing and Servicing of the 62.5KVA DG Set complete during installation. The servicing items required are Lube Oil Filter (1No.), Diesel Filter (1No.), Lube Oil 13 Ltrs Can (1No.), Battery Charging/Change (if defective) and Diesel for Generator Test Run (100 Ltrs).	1.00	job			
<b>Total Amount (Nu.)</b>						

**Amount in words:**

**Seal & Signature of Contractor**