

Ref. No. : PE/PG/BIF/E-6490/2020/CORRIGENDA/7

Date : 24.10.2020

CORRIGENDA / ADDENDUM-7

PROJECT: 2X660 MW BIFPCL MAITREE KHULNA STPP-BANGLADESH

TENDER ENQUIRY FOR WORKSHOP EQUIPMENTS (O & M STORES, Storage Items, Store Handling Equipment, Misc Store Items and Packing Items for Stores)

ENQUIRY No: PE/PG/BIF/E-6490/2020 dated 14.08.2020

DUE DATE
4-Nov-2020
BY 10:00 AM (IST)

1. Please find the clarifications as following :

Ref. Document No.	Existing	Revised as
Technical Specification no. PE-TS-421-568-A006	Sheet no 4 to 11 of 389 of technical specification no PE-TS-421-568-A006	The referred portion of technical specification is replaced with Annexure-B (attached herewith).
Technical Specification no. PE-TS-421-568-A006, NIT and all tender documents	"O & M Stores and Packing Items for Stores"	Wherever "O & M Stores and Packing Items for Stores" is mentioned, should be read as "O & M STORES, Storage Items, Store Handling Equipment, Misc Store Items and Packing Items for Stores"
PRE-QUALIFICATION REQUIREMENT (PQR) Doc No. PE-PQ-421-568-A006, Rev 00	PRE-QUALIFICATION REQUIREMENT (PQR) Doc No. PE-PQ-421-568-A006, Rev 00	Replaced with PRE-QUALIFICATION REQUIREMENT (PQR) Doc No. PE-PQ-421-568-A006, Rev 01 (attached herewith).

2. Please note that **priced and unpriced formats are being revised in abc procurement**. Revised unpriced BOQ schedule is attached herewith for ref.

3. Evaluation criteria has been revised as following :

Evaluation will be done separately for O & M STORES, Storage Items, Store Handling Equipment, Misc Store Items and Packing Items for Stores on itemwise / Group wise L1 (Total cost to BHEL excluding GST) basis in line with notes mentioned in Price schedule (BOQ) with necessary loading as applicable.

Part scope is acceptable.

4. In case of joint bidding, bidders to furnish scope matrix which should be clearly defined between them along with the offer for the complete scope.

5. With respect to point no. 28 of NIT, O & M STORES, Storage Items, Store Handling Equipment, Misc. Store Items and Packing Items for Stores are non-divisible in nature individually.



Ref. No. : PE/PG/BIF/E-6490/2020/CORRIGENDA/7

Date : 24.10.2020

6. The bid submission due date is extended up to **04.11.2020 at 10:00 A.M.** Bidders are requested to submit their offer on or before the due date and time via e-procurement portal (<https://bhel.abcpurchase.com>)

Kindly contact the undersigned in case of any queries.

Thanking You.

For & on Behalf of BHEL,

Senior Engineer/PG-I

ANNEXURE-B

PEM-6666-0

	TITLE 2X660 MW BIFPCL MAITREE SPECIFIC TECHNICAL REQUIREMENTS FOR WORKSHOP EQUIPMENT (O & M Stores, Storage Items, Store Handling Equipment, Misc. Store Items and Packing Items for Stores)	SPECIFICATION NO. PE – TS – 421 - 568 – A006			
		SECTION I			
		SUB SECTION IA			
		REV		0	
		SHEET 1 OF		22	

1.0

SYSTEM DESCRIPTION AND SCOPE OF WORK

Various types of equipment / machines which are included in bidder's scope of work and required for the maintenance and repair workshop of the power station equipment are given under: -

Scope of Work and Services: (O & M STORES, STORAGE ITEMS, STORAGE HANDLING EQUIPMENT and PACKING ITEMS FOR STORES)

1. Design, manufacturing, supply and detailed engineering of equipment & detailed layout of building showing all details like, Pipe trench & cable trenches, doors / windows, rolling shutter, ramp and glass partition wall as per requirement.
2. Supervision of Erection and commissioning of equipment.
3. Training to operate all the equipment to customer.
4. Supply of all Consumables till handing over and other items required for proper operation of equipment.
5. All equipment shall comply as per International Standard.
6. Indian Standard and Chinese Standard is not acceptable.
7. Chinese material is also not acceptable.

Exclusion:

1. All Civil Works.
2. Treatment of effluent if any.
3. Draining arrangement of liquid coolant from source to the nearest drain.
4. Power Supply & Cabling inside building.
5. Service water supply.
6. Erection and commissioning of machines/ equipment.

TITLE **2X660 MW BIFPCL MAITREE**

SPECIFICATION NO. PE – TS – 421 - 568 – A006

SPECIFIC TECHNICAL REQUIREMENTS FOR

SECTION I

WORKSHOP EQUIPMENT (O & M Stores, Storage Items,

SUB SECTION IA

Store Handling Equipment, Misc. Store Items and Packing

REV 0

Items for Stores)

SHEET 2 OF 22

SCOPE OF SUPPLY (O & M STORES, STORAGE ITEMS, STORE HANDLING EQUIPMENT, MISC. STORE ITEMS and PACKING ITEMS FOR STORES): -**Group I- O & M STORES: -**

S. N.	Equipment name	Description	Accessories	QTY.
A.	Storage Area for Heavy and Long Parts			
1.	Main Rack in heavy material store size 4500mm (H) x 2650mm (W) x 800mm (D) having G+03 loading levels. Each loading level will take 2000 kg/udl.			4
2.	Add on Rack in heavy material store size Approx. 4500mm (H) x 2650mm (W) x 800mm (D) having G+03 loading levels. Each loading level will take 2000 kg/udl.			26
3.	Cantilever Rack for Long Piece Racking, Double Sided, having a length min. 10 meter			1 Set
4.	Set of minimum ten (10) warning indication labels assembled on galvanized steel plates, size min. 400 x 600 mm including "No Smoking," "Fire Hazard" and direction to emergency escape.	Ten no each warning indication.		1 Set
5.	Rack with Shelves 6000 (L)X 2000 (W)X 700 (D) mm	MS construction with load bearing capacity 500 kg in each shelves		1

TITLE **2X660 MW BIFPCL MAITREE**

SPECIFICATION NO. PE – TS – 421 - 568 – A006

SPECIFIC TECHNICAL REQUIREMENTS FOR

SECTION I

WORKSHOP EQUIPMENT (O & M Stores, Storage Items,

SUB SECTION IA

Store Handling Equipment, Misc. Store Items and Packing

REV 0

Items for Stores)

SHEET 3 OF 22

S. N.	Equipment name	Description	Accessories	QTY.
B.	Storage Area for Spare Parts and Unpacked parts			
6	Rack in Light Material Store Size Approx.: 3000mm (H) x 1800mm (W) x 450mm (D) having 6 panels and 5 compartments. Each compartment will take 200 kg/udl.	All individual racking systems shall have two (2) steel type marking signboards, size 120 x 100 mm, complete with clipping device and painted, ready to accept a numbering system		63
7.	Set of minimum ten (10) warning indication labels assembled on galvanized steel plates, size min. 400 x 600 mm including "No Smoking," "Fire Hazard" and direction to emergency escape.	Ten no each warning indication.		1 Set
8.	Rack with Shelves 3000 (L) X 2000 (W) X 600 (D) mm	MS construction with load bearing capacity 500 kg in each shelves		1
C.	Storage Area for Electrical / Electronic parts			
9.	Rack in Electrical / Electronic Material Store Size Approx.: 3000mm (H) x 1800mm (W) x 450mm (D) having 6 panels and 5 compartments. Each compartment will take 200 kg/udl.	All individual racking systems shall have two (2) steel type marking signboards, size 120 x 100 mm, complete with clipping device and painted, ready to accept a numbering system		38
10.	Set of minimum ten (10) warning indication labels assembled on galvanized steel plates, size min. 400 x 600 mm including "No Smoking," "Fire Hazard" and direction to emergency escape.	Ten no each warning indication.		1 Set
11.	Rack with Shelves 3000(L) X 2000 (W) X 600 (D)mm	MS construction with load bearing capacity 500 kg in each shelves		1
D.	Common Maintenance Equipment			
12.	Tool boxes with hand tools.	Suitable for maintenance of Store racking system for all stores.		5
13.	Ladders	Aluminum type for inspection with width 0.4 meter and safety hook system suitable to be used with safety racking / support system for all stores.		3

TITLE **2X660 MW BIFPCL MAITREE**

SPECIFICATION NO. PE – TS – 421 - 568 – A006

SPECIFIC TECHNICAL REQUIREMENTS FOR

SECTION I

WORKSHOP EQUIPMENT (O & M Stores, Storage Items,

SUB SECTION IA

Store Handling Equipment, Misc. Store Items and Packing

REV 0

Items for Stores)

SHEET 4 OF 22

Group II- STORAGE ITEMS: -

S. N.	Equipment name	Description	Accessories	QTY.
1.	Pallets 1200mm X 800mm			288
2.	Bins Size Min. 600X400X300			3000
3.	Table	Size 850 x 1,500 x 750 mm, with steel support structure and 50 mm thick table plate out of laminated wood.		3
4.	Each fourth base plate shall be equipped with four (4) polypropylene-type material boxes 340 x 215 x 200 mm, each box having one color, i.e. yellow, blue, red or black.			38 set

TITLE **2X660 MW BIFPCL MAITREE**

SPECIFICATION NO. PE – TS – 421 - 568 – A006

SPECIFIC TECHNICAL REQUIREMENTS FOR

SECTION I

WORKSHOP EQUIPMENT (O & M Stores, Storage Items,

SUB SECTION IA

Store Handling Equipment, Misc. Store Items and Packing

REV 0

Items for Stores)

SHEET 5 OF 22

Group III- STORE HANDLING EQUIPMENT: -

S. N.	Equipment name	Description	Accessories	QTY.
1.	Hydraulic pallet trolleys 	Capacity min. 2 ton. Reference Photograph is shown.		1
2.	Battery operated stacking trolley 	Capacity min. 2000 Kg, Lifting height min 4 meter. Reference Photograph is shown.		3
3.	Electric sweeper 	Sweeping Cap. Min. 5000 m2/hr, Waste Hopper collection capacity min. 50 litre. Reference Photograph is shown.		1
4.	Hydraulic Pallet Truck 	5000 LBS Capacity. Reference Photograph is shown.		6

TITLE **2X660 MW BIFPCL MAITREE**

SPECIFICATION NO. PE – TS – 421 - 568 – A006

SPECIFIC TECHNICAL REQUIREMENTS FOR

SECTION I

WORKSHOP EQUIPMENT (O & M Stores, Storage Items,

SUB SECTION IA

Store Handling Equipment, Misc. Store Items and Packing

REV 0

Items for Stores)

SHEET 6 OF 22

Group IV- MISC. STORE ITEMS: -

S. N.	Equipment name	Description	Accessories	QTY.
1.	Electronic weighing scale up to 100 kg	Electronic high accuracy balance, Weighing range 0 – 100 kg, Desk top type, platform size 600 x 600 mm, Accuracy class 0.1%, Platform material: stainless steel, High accuracy digital weighing indicator, Automatic zero tracking, Net weight display, Tare weight display, Gross weight display, Serial interface.		2
2.	Electronic weighing scale up 2,000 kg with provision of label printing	Weighing range 0 – 2,000 kg, Floor mounted platform, Platform size 2,000 x 1,500 mm, Accuracy class 0.5%, Platform material: stainless steel, High accuracy digital weighing indicator, Automatic zero tracking, Net weight display, Tare weight display, Gross weight display, Serial interface.		1
3.	Portable Crane (cantilever) 3 tons 	Capacity-3 Ton, Lift 2.5 meter, Indoor type, Load Hook C Shank with Safety latch, with all accessories. Reference Photograph is shown.		1
4.	Vacuum cleaners, heavy-duty industrial type.	Wet and dry heavy duty vacuum cleaner capacity 18 litre		4

NOTE: SUCESSFUL BIDDER OF ABOVE GROUP (GROUP I- O & M STORE) IS REQUIRED TO FURNISH DETAILED LAYOUT OF O & M STORE BUILDING DURING DETAIL ENGINEERING BASED ON LAYOUT DRAWING ATTACHED IN THIS SPECIFICATION.

TITLE **2X660 MW BIFPCL MAITREE**

SPECIFICATION NO. PE – TS – 421 - 568 – A006

SPECIFIC TECHNICAL REQUIREMENTS FOR

SECTION I

WORKSHOP EQUIPMENT (O & M Stores, Storage Items,

SUB SECTION IA

Store Handling Equipment, Misc. Store Items and Packing

REV 0

Items for Stores)

SHEET 7 OF 22

Group V. PACKING ITEMS FOR STORES: -

S. N.	Equipment name	Description	Accessories	QTY.
1.	Electronic pulse producers, type polyester 100 GE 	The machine shall be suitable to packing material type polyester 100 GE for sealing heavy plastic bags/ machinery etc., Adjustable electronic timer, sealing length 400 mm (approx.) and sealing width 3 mm (approx.). Reference Photograph is shown.		4
2.	Welding tongs, type polyester 40 D 	The machine shall be suitable to packing material type polyester 40 D for sealing heavy plastic bags/ machinery etc., Adjustable electronic timer, sealing length 400 mm (approx.) and sealing width 3 mm (approx.). Reference Photograph is shown.		2
3.	Welding tongs, type 24 DS 	The machine shall be suitable to packing material type 24 DS for sealing heavy plastic bags/ machinery etc., Adjustable electronic timer, sealing length 400 mm (approx.) and sealing width 3 mm (approx.). Reference Photograph is shown.		2
4.	Welding tongs, type polyester 15 D 	The machine shall be suitable to packing material type polyester 15 D for sealing heavy plastic bags/ machinery etc., Adjustable electronic timer, sealing length 400 mm (approx.) and sealing width 3 mm (approx.). Reference Photograph is shown.		2

TITLE **2X660 MW BIFPCL MAITREE**

SPECIFICATION NO. PE – TS – 421 - 568 – A006

SPECIFIC TECHNICAL REQUIREMENTS FOR

SECTION I

WORKSHOP EQUIPMENT (O & M Stores, Storage Items,

SUB SECTION IA

Store Handling Equipment, Misc. Store Items and Packing

REV 0

Items for Stores)

SHEET 8 OF 22

S. N.	Equipment name	Description	Accessories	QTY.
5.	Continuous welding tools, type polyester 350 SM 	The machine shall be suitable to packing material type polyester 350 SM, Suitable to handle packing weight of 50 Kg (approx.), sealing rate 10 meter /min (approx.). Reference Photograph is shown.		2
6.	Polyethylene - tube foil, colourless, transparent (5 role of 500mm width and 5 role of 1000 mm width)			2 set

PAINTING SCHEDULE**At Works: -**

Surface Preparation: - Degreasing and surface preparation to SA 2 1/2.

Prime coat: - One (1) coat of zinc epoxy primer. Dry film thickness 80 microns per coat.

Intermediate coat: - One (1) layer Epoxy high solid, Dry film thickness 160 micron.

Finish coat: - Application of one coat of polyurethane. Dry film thickness 50 microns per coat.

Total system: Dry film thickness 290 microns.

Final shade of paint shall be as per manufacturer's standard only.

NOTES: -

- 1) Maintenance tools and tackles as required for the various machines /equipment, commissioning spares for various machines / equipment as applicable, is included in Bidder's scope of work.
- 2) Machines/equipment shall be supplied with the manufacturer's standard accessories & other accessories as indicated above.

2.0 The followings shall also be included in bidder's scope of work: -

- 2.1 Required numbers of machines/ equipment in new / unused condition along with standard accessories /special accessories as listed above in the specification.

BHEL-PEM-MAUX
PRE-QUALIFICATION CRITERIA

	2x660 MW MAITREE STPP, RAMPAL, BANGLADESH PACKAGE: WORKSHOP EQUIPMENTS (O & M STORES, Storage Items, Store Handling Equipment, Misc Store Items and Packing Items for Stores))	PE-PQ-421-568-A006	
		DATE	23.10.2020
		REV NO	01

1.0	Supplier should have supplied at least one of the following Machines /Equipment with specified minimum parameters. 1. Pallet Racking System 2. Wooden Pallets with bearing capacity 2 Ton 3. Stackable type of industrial grade plastic Storage Bins 4. Hydraulic Pallet Trolley 5. Electric Sweeper 6. Electronic Weighing Scale Cap. 2000 Kg 7. Portable Crane (cantilever) cap. 3 tons 8. Welding Tongs for Packing
2.0	The Supplier has to submit following supporting documents meeting above mentioned pre-qualifying requirement: a. Copy of minimum one (1) Purchase Order (PO) or letter of intent (LOI) or letter of award (LOA) or work order (WO), which shall include at least one machine / equipment as defined at S. No. 1. b. GA drawing/ Catalogue of Equipment / technical data sheet supplied as mentioned in Purchase Order (PO) / letter of intent (LOI) /letter of award (LOA) /work order (WO).
3.0	Stockist/ trader/ distributor/ dealer/ authorized agent/ channel partner/ sales office or subsidiary of principal are also acceptable in addition to OEM/ Principal, provided bidder is authorised by OEM/ Principal and OEM/ Principal meets the minimum pre-qualification criteria stipulated above at sl. no 1.0 & 2.0.

Note: -

- A) Above PQR is for technical pre-qualification of bidders only. However, bidder has to supply Workshop Equipment as per standards indicated in clause no. B0.6.2 of BIFPCL specification enclosed in technical specification PE-TS-421-568-A006 only. Bidder has to give undertaking on letter head along with the bid confirming the same. In absence of undertaking, bidder shall not qualify.
- B) All the documents submitted by bidder against Sl. no. 2 (a) & (b) above should pertain to the equipment as defined at Sl. N. 1 above.
- C) Acceptance of the bidder is subject to customer (BIFPCL) approval before ordering.
- D) Bidder to submit all supporting documents in English. If documents submitted by bidder are in language other than English, a self-attested English translated document should also be submitted.

Note:

1) Bidder to quote the Prices in 'figures' along with corresponding 'words'.

2) Bidder may quote part / complete scope for equipment(s) mentioned at Sl. No. 1.1, 1.2, 1.3, 1.4 & 1.5. However bidder has to quote complete scope for any particular equipment, for example if bidder choose to quote for item 1.1 then bidder has to quote for all the fields under 1.1, i.e. 1.1a, 1.1b, 1.1c, 1.1d., failing to comply with the said requirement the bid shall be consider as incomplete and shall be liable for rejection.

3) Bidder to note that Bid shall be evaluated on itemwise basis against the prices quoted at Sl. No. 1.1d, 1.2a, 1.3a, 1.4a and 1.5a respectively.

4) No. of days at site for supervision (travel time is excluded) as mentioned at S.N. 1.1b may vary, depending upon site requirement. Any variation in no. of days shall be exercised based on unit rate arrived from S.N. 1.1b.

5) No. of site visit(s) (except per man day charges for supervision)as mentioned at S.N. 1.1c may vary, depending upon site requirement. Any variation in no. of visits shall be exercised based on unit rate arrived from S.N. 1.1c.

ANNEXURE IA TO ANNEXURE-I (Rev 01)

S. No.	DESCRIPTION	HSN CODE	UNIT	QTY
BREAK-UP OF SUPPLY PRICES LISTED AT 1.1 OF MAIN SHEET				
	O & M STORES			
A.	Storage Area for Heavy and Long Parts			
1	Main Rack in heavy material store size 4500mm (H) x 2650mm (W) x 800mm (D) having G+03 loading levels. Each loading level will take 2000 kg/udl.		Nos.	4
2	Add on Rack in heavy material store size Approx. 4500mm (H) x 2650mm (W) x 800mm (D) having G+03 loading levels. Each loading level will take 2000 kg/udl.		Nos.	26
3	Cantilever Rack for Long Piece Racking, Double Sided, having a length min. 10 meter		Set	1
4	Set of minimum ten (10) warning indication labels assembled on galvanized steel plates, size min. 400 x 600 mm including "No Smoking," "Fire Hazard" and direction to emergency escape.		Set	1
5	Rack with Shelves 6000 (L)X 2000 (W)X 700 (D) mm		No.	1
B.	Storage Area for Spare Parts and Unpacked Parts			
6	Rack in Light Material Store Size Approx.: 3000mm (H) x 1800mm (W) x 450mm (D) having 6 panels and 5 compartments. Each compartment will take 200 kg/udl.		Nos.	63
7	Set of minimum ten (10) warning indication labels assembled on galvanized steel plates, size min. 400 x 600 mm including "No Smoking," "Fire Hazard" and direction to emergency escape.		Set	1
8	Rack with Shelves 3000 (L) X 2000 (W) X 600 (D) mm		No.	1
C.	Storage Area for Electrical / Electronic parts			
9	Rack in Electrical / Electronic Material Store Size Approx.: 3000mm (H) x 1800mm (W) x 450mm (D) having 6 panels and 5 compartments. Each compartment will take 200 kg/udl.		Nos.	38
10	Set of minimum ten (10) warning indication labels assembled on galvanized steel plates, size min. 400 x 600 mm including "No Smoking," "Fire Hazard" and direction to emergency escape.		Set.	1
11	Rack with Shelves 3000(L) X 2000 (W) X 600 (D)mm		No.	1
12	Tool boxes with hand tools.		Nos.	5
13	Ladders		Nos.	3
	Note:			
1	Bidder to note that bidder has to quote for all the items listed above at S.N. 1 to 13 in the main sheet of price schedule at S. No. 1.1a. For detail description of above items bidder to refer technical specification.			

ANNEXURE IB TO ANNEXURE-I (Rev 01)

S. No.	DESCRIPTION	HSN CODE	UNIT	QTY
BREAK-UP OF SUPPLY PRICES LISTED AT 1.2 OF MAIN SHEET				
	STORAGE ITEMS			
1	Pallets 1200mm X 800mm		Nos.	288
2	Bins (Size Min. 600X400X300)		Nos.	3000
3	Table		No.	3
4	Each fourth base plate shall be equipped with four (4) polypropylene-type material boxes 340 x 215 x 200 mm, each box having one color, i.e. yellow, blue, red or black.		Set.	38
	Note:			
1	Bidder to note that bidder has to quote for all the items listed above at S.N. 1 to 4 in the main sheet of price schedule at S. No. 1.2a. For detail description of above items bidder to refer technical specification.			

ANNEXURE IC TO ANNEXURE-I (Rev 01)

S. No.	DESCRIPTION	HSN CODE	UNIT	QTY
BREAK-UP OF SUPPLY PRICES LISTED AT 1.3 OF MAIN SHEET				
	STORE HANDLING EQUIPMENT			
1	Hydraulic pallet trolleys 2,000 kg		No.	1
2	Battery operated stacking trolley 2000 Kg		Nos.	3
3	Electric sweeper		No.	1
4	Hydraulic Pallet Truck		Nos.	6
	Note:			
1	Bidder to note that bidder has to quote for all the items listed above at S.N. 1 to 4 in the main sheet of price schedule at S. No. 1.3a. For detail description of above items bidder to refer technical specification.			

ANNEXURE ID TO ANNEXURE-I (Rev 01)

S. No.	DESCRIPTION	HSN CODE	UNIT	QTY
BREAK-UP OF SUPPLY PRICES LISTED AT 1.4 OF MAIN SHEET				
	MISC. STORE ITEMS			
1	Electronic weighing scale up to 100 kg		Nos.	2
2	Electronic weighing scale up 2,000 kg with provision		No.	1
3	Vacuum cleaners, heavy-duty industrial type.		Nos.	4
4	Portable Crane (cantilever) 3 tons		No.	1
	Note:			
1	Bidder to note that bidder has to quote for all the items listed above at S.N. 1 to 4 in the main sheet of price schedule at S. No. 1.4a. For detail description of above items bidder to refer technical specification.			

ANNEXURE IE TO ANNEXURE-I (Rev 01)

S. No.	DESCRIPTION	HSN CODE	UNIT	QTY
BREAK-UP OF SUPPLY PRICES LISTED AT 1.5 OF MAIN SHEET				
	PACKING ITEMS FOR STORES			
1	Electronic pulse producers, type polyester 100 GE		Nos.	4
2	Welding tongs, type polyester 40 D		Nos.	2
3	Welding tongs, type 24 DS		Nos.	2
4	Welding tongs, type polyester 15 D		Nos.	2
5	Continuous welding tools, type polyester 350 SM		Nos.	2
6	Polyethylene - tube foil, colourless, transparent		Set	2
	Note:			
1	Bidder to note that bidder has to quote for all the items listed above at S.N. 1 to 6 in the main sheet of price schedule at S. No. 1.5a. For detail description of above items bidder to refer technical specification.			