

Power Grid Company of Bangladesh Limited (PGCB)

Design, Supply, Installation, Testing & Commissioning of 400/230kV, 400/520MVA Transformer with associated switchgear in existing Aminbazar 400/230/132kV grid substation

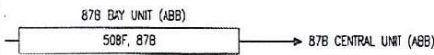
(OCB No. PGCB/400kVTx/Aminbazar SS)

CLARIFICATION NO. 1

No.	Volume / Section / Clause / Item / Page	Bidder's comment / Query / Clarification	PGCB's Reply
1.	Volume 1 1.2.2 Time Schedule	Tender Spec. Description: 270 (Two hundred seventy) days Bidder's Request/Clarification: 360 (Three Sixty) Days from LC Opening Date	Refer to Addendum-1.
2.	Volume 2/ SECTION 9 building and civil engineering works clause 9.1 General	Clause Description: This section covers all earth work, foundations and buildings associated with the project together with roads, surfacing, cable trenches and tunnels, boundary walls, guard houses, foul and storm drainage and water supply Question of Bidder: Whether buildings, roads, cable trenches, tunnel, boundary wall, guard houses, drainage system required to be built in the scope of work? no such indication is found in the price schedule. Please kindly clarify.	Buildings, roads, cable trenches, tunnel, boundary wall, guard houses, drainage system are not included in the scope of work.
3.	Volume 2/ SECTION 9 building and civil engineering works clause 9.1.1 scope of work	Clause Description: The work includes the design, detailing, construction and maintenance of the following: 1. performance of site investigation 2. foundations for all equipment to be installed in outdoor switchyards, control buildings, indoor switchgear and any other building required for the project 3. complete buildings consisting of structural reinforced concrete frames, brick walls, concrete roof and floor slabs. 4. roadways generally within sites, surfacing the entire area within site boundary and surface water drainage. 5. cable trenches, cable tunnels, cable ducts and pipe ducts Included in the scope of work is the detailing, construction and maintenance of the following items which shall	Guard houses, relay houses, auxiliary control building are not within the scope. Hence no drawing required for these construction.

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		generally be constructed to the Employer's standards but full working drawings shall be prepared by the Contractor: a. guardhouses b. the relay houses c. auxiliary control building Guardhouse, as stated in item (a) shall be designed as per enclosed drawing. The Bidder shall state which approved local building Contractor(s) he proposes to employ to carry out the work Question of Bidder: Whether guard houses, relay houses, auxiliary control building are within the scope or not?	
4.	Volume 2/ SECTION 9 clause 9.3.1 Architectural and Structural Requirements of Buildings	Clause Description: Complete clause 9.3.1 is described for Architectural and Structural Requirements of Buildings Question of Bidder: Whether architectural and structural design are required for buildings?	Since there is no building construction in this scope hence it is not required.
5.	Volume 2/ SECTION 9 clause 9.3.3 Drainage	Clause Description: Drainage system described in the clause 9.3.3 Question of Bidder: Please kindly clarify is there any drainage system in the scope of work?	Drainage system is already existing. Not required.
6.	Volume 2/ SECTION 9 clause 9.3.5 roads	Clause Description: (first paragraph) All roads within the site boundary shall be provided by the Contractor, plus access road outside the site boundary to connect to any adjacent public road or waterway. The extent of roads required is shown approximately on Bid drawings but the scope of the work may change. Question of Bidder: Whether roads are considered in the scope of work or not? There is not drawing for extension of the road. Please confirm.	Road is existing near the proposed transformer location. Please refer to section drawing. No extension of the existing road is required.



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7.	Volume 2 List of drawing	Annexure _B contains relevant drawings . transformer BCT specification are mentioned in PSLD. Question of Bidder: Is it possible to provide bushing CT core in details through nameplate	Yes, BCT nameplate is attached.
8.	Volume 2 List of drawing	Annexure _B contains relevant drawings of transformer like GA, VALVE schedule. Question of Bidder: Since dimension and weight are mentioned, whether it requires mandatory nameplate to be followed.	Nameplate is attached and it shall be followed for the project.
9.	Volume 2 List of Bid Drawings in annexure_B, N8/N9 & Volume 3 Schedule 1. supplied from abroad, F Control, Protection, Substation Automation and Metering	Tender Spec. Description: Protection & Metering SLD (Diameter-1)  & F6. Existing Control, protection and SAS for two 230 kV busbars shall be complete with wiring, testing and commissioning Bidder's Request/Clarification: With reference to the price schedule requirement and cited drawing reference for aminbazar substation 230kv side control & protection scheme extension part, we understand that respective bay unit REB 500BU (for busbar protection scheme) is already existing for the upcoming 230kv side of new Auto transformer and will be reused (through reconnection) .hence supply of new bay unit –REB500BU (for busbar protection scheme) is not required. please clarify	230kv side of ATR will be connected with existing bay unit of busbar protection. So, new bay unit is not required.
10	Volume 3 Annexure-A1, 1.5 & 1.6 (1.5 Relay Model REB500 V7.50) Annexure-A2, 1.5 & 1.6 (1.5 Relay Model REB500	Refer to the cited tender specification clauses and PGCB requirements, please clarify the following points: 1. despite the tender requirement location which is for aminbazar substation, is PGCB looking for the specified REB500 central unit version 7.5 requirements for other new projects ? please clarify 2. further we find two different SLD's (SLDA1 & SLD A2) for the requirement of REB	1. Busbar protection central unit REB500 V7.5 need to be provided as spare with full configuration as per attached single line diagram and GTPAS 2. As per tender document, two

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	1.6 Relay Software version V7.50) Bay Assignment Annexure-A1A2 (Bay protection is required for highlighted bays) SLD A1 SLD A2 Schedule 1. supplied from abroad, L. Mandatory Spare Parts (iii. & iv.) (Busbar protection central unit ,REB 500 , Detailed specification in annexure _A1 No. 1 Busbar protection central unit ,REB 500 , Detailed specification in annexure _A2 No. 1)	500 V7.5 central units in the tender specification .in this case which substation are these furnished SLD's belongs to? Kindly clarify with additional details(including substation location and voltage level) 3. if the above SL No. 1 is true,is there any possibility for Hitachi Energy to offer latest version of REB 500 V8.3 instead of specified REB500 V7.5 which is previous version of our REB500 product portfolio? If PGCB accepts this proposal (of new REB500 central unit version supply) ,we can offer respective latest version of REB500 V8.3 central unit along with respective new bay units with latest version (i.e, REB500BU v8.3)as per bay assignment pattern (mentioned in the tender specification) which would apparently replace existing previous version(7.5) of REB500 bay units as well. kindly clarify 4. as the requirements are specified under mandatory spare parts category ,are these required REB500 central unit IED's to be supplied as a loose delivery ? kindly clarify	(02) central unit of busbar protection relay REB500 V7.5 shall be supplied. one central unit will be configured following SLD A1 (230KV system) and 2nd central unit will be configured following SLD A2 (132KV system) 3. As per tender, two (02) central unit of busbar protection REB500 V7.5 shall be supplied. REB500 V8.3 is not considered for this project. 4. Busbar protection central unit REB500V7.5 shall be supplied with full configuration following SLD A1 & SLD A2
11	Volume 3 a) Section 1.4 - Scope of Supply, D1 - Transformer b) GTP - 400/235/33 kV 400/520 MVA ONAN/ONAF Autotransformer c) Price Schedule- Item No. D1	In a) scope of supply and c) price schedule it is mentioned that the auto transformer is 400/235/33kv, 420/520MVA, YNa0d1 ,ONAN/ONAF with tertiary winding ,three phase oil immersed ,hermitically closed with on-load tap changer with single phase ,3 core current transformer in all bushings. But in b) GTP it is mentioned 400/235/33KV, 400/520MVA ONAN/ONAF auto transformer, please clarify	400/235/33kV, 400/520 MVA Autotransformer.
12	Volume 1 Section 3, Sub-section 2.5 Personnel & Volume 3 Schedule H: Proposed Contract and Site Organization	In the cited tender specification clauses and PGCB requirements, there are discrepancies in the requirement regarding qualification of Personnel for the key positions. Which one should prevail?	The requirements mentioned in Volume 3 (Schedule H: Proposed Contract and Site Organization) shall prevail.