



Bangladesh Sugar & Food Industries Corporation

ChinishilpaBhaban, 3 Dilkusha C/A, Dhaka-1000

ADDENDUM OF TENDER DOCUMENT FOR

***PROCUREMENT OF EPC (ENGINEERING, PROCUREMENT, CONSTRUCTION
& COMMISSIONING) CONTRACTOR***

FOR

Package- NBSM 1:

- i) Co-generation Plant (6.00 MW) with
New Preparatory Devices of Mill House
and**
- ii) Sugar Refinery Plant (200 TPD)**

UNDER THE PROJECT

**PRODUCTION OF ELECTRICITY BY CO-GENERATION AND ESTABLISHMENT
OF SUGAR REFINERY AT NORTH BENGAL SUGAR MILLS**

LOCATION: NATORE, BANGLADESH

Ref. No: BSFIC/Project-NBSM/Co-Gen./5018/15.01/2017/

Issued on:

Sub: The Addendum of the Tender Document for Package-NBSM-1.

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
1		2		3	4	5
01	Vol.-I	37	Section-2 TDS	ITT 1.1	Identification Number: BSFIC/Project-NBSM/ NBSM/ 5018/15.01/188 Date:11-06-2017	Identification Number: BSFIC/Project-NBSM/Co- Gen./ 5018/15.01/2017/188 Date:11-06-2017
02	Vol.-I	39	Section-2 TDS	ITT 14.1(b) (Last line of 1 st and 2 nd para)	<p>Specific Experience of Tenderers:</p> <p>Lot-1-Co-generation Plant (6.00 MW) with New Preparatory Devices:</p> <p>---- and the value of completion of a co-generation plant must be of minimum USD 15.00 million.</p> <p>Lot-2: Sugar Refinery:</p> <p>----- and the value of completion of a Sugar refinery must be of minimum USD 7.00 million.</p>	<p>Specific Experience of Tenderers:</p> <p>Lot-1-Co-generation Plant (6.00 MW) with New Preparatory Devices:</p> <p>----- and the value of at least 1 (one) completed co-generation plant must be of minimum USD 15.00 million.</p> <p>Lot-2: Sugar Refinery:</p> <p>----- and the value of at least 1 (one) completed Sugar refinery must be of minimum USD 7.00 million.</p>
03	Vol.-I	42	Section-2 TDS	ITT 23.8	The price to be quoted in Tender Submission Letter for Financial part (Form -3) shall be the total price of the Tender, excluding any discounts offered, only in case of being awarded more than one package, by the Tenderer.	Discount offer not Applicable.
04	Vol.-I	42	Section-2 TDS	ITT 23.9	The Tenderer wishing to offer any discount shall indicate the methodology for their application in the Tender Submission Letter (Form -1) for being awarded of more than one package.	Discount offer not Applicable.

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
05	Vol.-I	43	Section-2 TDS	ITT 36.1	The Deadline for Submission of Tenders is upto 12.30 P.M. on 24-08-2017	The Deadline for Submission of Tenders is upto 12.30 P.M. on 21-09-2017
06	Vol.-I	44	Section-2 TDS	ITT 53.2	If the winning package is missing some items as stated under ITT Sub Clause 53.1, comprising less than twenty percent (20%), the Purchaser may procure the missing items from the Tenderer offering the least cost for those remaining items.	Not Applicable
07	Vol.-I	63	Appendix A	Clause- 4 (e)	GCC Sub-Clause 45.3	Replaced by Annexure-II Sub-Clause 38.3.
08	Vol.-I	64	Appendix A	Clause- 5 (in 4 th para)	GCC Sub-Clause 45.3	Replaced by Annexure-II Sub-Clause 38.3.
09	Vol.-I	65	Appendix A	Clause- 6 (d) (in 6 th para)	GCC Sub-Clause 12.3.	Replaced by GCC Sub-Clause 27.5
10	Vol.-I	67	Annex- Dispute Board Guideline	Clause- 5	GCC Sub-Clause 45.3	Replaced by Annexure-II Sub-Clause 38.3
11	Vol.-I	68	Annex- Dispute Board Guideline	Clause- 9	GCC Sub-Clause 45.3	Replaced by Annexure-II Sub-Clause 38.3,
12	Vol.-I	76	Section-4 PCC	Annexure- II 7.3.3	GCC clause 27.8	Replaced by Annexure-II clause 20.8
13	Vol.-I	76	Section-4 PCC	Annexure -II 14.2.4	Sub-clause 21.4	Replaced by Annexure-II Sub-clause 14.2.4

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
14	Vol.-I	77	Section-4 PCC	Annexure-II 16.3	Sub-Clause 23.3:	Replaced by Annexure-II Sub-Clause 16.3
15	Vol.-I	77	Section-4 PCC	Annexure- II 40	Sub-Clause 14.2 as follows:	Replaced by Sub-Clause 40.2.
16	Vol.-I	109	Section-5 PCC	Lot-1 Form-3D (ii)	Civil works, Erection & Commissioning and other services (Lot-1)	Civil works, Erection & Commissioning and other services (Lot-1) The following note is included in this Form-3D (ii) of Lot-1: Note: Items not covered in the price schedule no. 3D(ii) but required for the completion of the project are deemed to have been included in the offered price schedule.
17	Vol.-I	125	Section-5 PCC	Lot-2 Form-3D (ii)	Civil works, Erection & Commissioning and other services (Lot-3)	Civil works, Erection & Commissioning and other services (Lot-2) The following item and note is included in this Form-3D (ii) of Lot-2: 8. Machine Foundation for Refinery and Sugar Process House Equipments – Qty- 1 lot Note: Items not covered in the price schedule no. 3D(ii) but required for the completion of the project are deemed to have been included in the offered price schedule.
18	Vol.-I	194	Annexure-II	Clause- 5.5	GCC Clause 1	Replaced by GCC Clause 6.3

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
19	Vol.-I	199	Annexure-II	Clause-12.1	EPC Contractor may appoint subcontractor with his own responsibilities after signing the contract agreement keeping informed the purchaser. But the whole liabilities of the work or facilities of the plants will remain with the contractor's liabilities. No claim or payment of the subcontractor will be considered by the Purchaser.	This clause is deleted.
20	Vol.-I	201	Annexure-II	Sub-Clause-13.2.7	GCC Sub-Clause 13.2	Replaced by Annexure-II Sub-Clause 13.2
21	Vol.-I	201	Annexure-II	Sub-Clause-14.1	GCC Sub-Clause 14.2	Replaced by Annexure-II Sub-Clause 14.2
22	Vol.-I	202	Annexure-II	Sub-Clause-14.3	14.2.1, 14.2.2, 14.2.3 and 14.2.4	Replaced by 14.3.1, 14.3.2, 14.3.3 and 14.3.4
23	Vol.-I	202	Annexure-II	Sub-Clause-14.3 (Custom Clearance)	14.3 <u>Customs Clearance</u> & GCC Sub-clause 14.2	Replaced by 14.4 <u>Customs Clearance</u> & Replaced by Annexure-II Sub-clause 14.2
24	Vol.-I	202	Annexure-II	Sub-Clause-38.5 (d)	GCC Sub-Clause 5.3	Replaced by GCC Sub-Clause 7
25	Vol-II	2	Table of contents	Table 3.1	New Milling	New Preparatory Devices of Mill House
26	Vol-II	5	2.0 (Design Basis)	I	Sugar Plant	The following data is added in this clause. Pol% Cane: 9.6 (5 years average) Cane Mixed Juice Purity: 76.62 Expected Sulphittion Plant Sugar Recovery: 7.31

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum					
27	Vol -II	5	2.0 (Design Basis)	II	Sugar Refinery	Following Specification of Imported Raw Sugar used in the Refinery is included in this clause.					
						Raw Sugar Specifications					
						Description		Unit		Value	
						Total Solid Wt.		T/D		190	
						Pol Weight		T/D		187.15	
						Non-Sugar Weight		T/D		2.85	
						Water Weight		T/D		0.3	
						Brix		%		100	
						Pol		%		98.5	
						Purity		%		98.65	
						Moisture		%		0.15	
Color		ICUMSA		< 1200							
28	Vol -II	8	2.0 (Design Basis)	IV		The following Source and quality of Raw water is included in this section.					
						IV. <u>Raw Water Specification</u>					
						Description		Value			
						1. Source of Water		Ground Water			
						2. pH		7.14			
						3. Turbidity		5.21 NTU			
4. Total Hardness		338 mg/l									
5. Arsenic		0.03 mg/l									
29	Vol -II	8	2.0 (Design Basis)	III (43)	43. The economical steam rate required at percentage load (%): 80 -100%	This sl no. 43 is deleted.					

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
30	Vol -II	11-12	3.0 (Scope of Supply, Terminal points and exclusions)	I. General (5 th Para)	<p>The scopes of work under this specification include but not limited to the following:</p> <ol style="list-style-type: none"> 1. New Preparatory Devices 2. 200 TPD Refinery 3. 6 MW Co-Generation Plant 4. All Electrical System 5. All Instrumentation & Control System 6. All Civil & Structural works 	<p>The scopes of work under this specification include but not limited to the following:</p> <ol style="list-style-type: none"> 1. New Preparatory Devices: Installing totally a new cane unloading, feeding and preparation devices in line with the existing mill house. In this case, introduction of mechanical cane unloader, feeder table, new cane carrier, new leveller, cane chopper, new fibrizor and feeding carrier of prepared cane to first mill, can be effectively installed. 2. 200 TPD Refinery and improvement in existing process house: Installation of 200 TPD refinery Plant up to de-colorization process and for crystallization process, Centrifuging, Drying, Screening & Packing, the existing machinery of process house will be used by replacing and addition of some machinery of process house. 3. 6 MW Co-Generation Plant. 4. All Electrical System for the new machineries and tie up with the existing electrical system. 5. All Instrumentation & Control System for new machineries. 6. All Civil & Structural works for new machineries.

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31	Vol -II	11-12	3.0 (Scope of Supply, Terminal points and exclusions)	I. General (Spare Parts Table)	MANDATORY/2 YEARS OPERATIONAL SPARES: Mills: <ol style="list-style-type: none"> 1. Trash plate 2. Scrapers top 3. Scrapers bottom 4. Rollers ungrooved 5. Bearing liners (gm) top & side 6. Hydraulic bucket & orings for hydraulic system 7. Rakes for inter carrier 8. Hydraulic fittings 9. Hydraulic piping 10. Mill lub. pump spares 11. Fibrisor hammer with tips 12. Cutter knives 13. Cane carrier chain 14. Cane carrier slats 15. Feeder table chain 16. Block type rake elevator chain 17. Bush/pin for each type of chain 18. Spare rakes 19. C.S crown pinion for mill roller 20. Rope type coupling . 	MANDATORY/2 YEARS OPERATIONAL SPARES: <table border="1"> <thead> <tr> <th>Description</th> <th>Mandatory</th> <th>Two Years</th> </tr> </thead> <tbody> <tr> <td colspan="3">Mills:</td> </tr> <tr> <td>1. Fibrisor hammer with tips</td> <td>10 nos.</td> <td>100 nos.</td> </tr> <tr> <td>2. Cutter knives</td> <td>10 nos.</td> <td>10 nos.</td> </tr> <tr> <td>3. Cane carrier chain</td> <td>10 mtr.</td> <td>25 mtr.</td> </tr> <tr> <td>4. Cane carrier slats</td> <td>20 nos.</td> <td>50 nos..</td> </tr> <tr> <td>5. Feeder table chain</td> <td>10 mtr.</td> <td>10 mtr.</td> </tr> <tr> <td>6. Block type rake elevator chain</td> <td>1 set</td> <td>1 set</td> </tr> <tr> <td>7. Bush/pin for each type of chain</td> <td>50 nos.</td> <td>200 nos.</td> </tr> <tr> <td>8. Spare rakes</td> <td>10 nos.</td> <td>10 nos.</td> </tr> <tr> <td>9. Rope type coupling .</td> <td>1 set</td> <td>1 set</td> </tr> <tr> <td>10. VFD panel control cards</td> <td>2 sets</td> <td>2 sets</td> </tr> <tr> <td>11. Motor for each size and ratings upto 50kw</td> <td>1 no. each</td> <td>-</td> </tr> </tbody> </table>	Description	Mandatory	Two Years	Mills:			1. Fibrisor hammer with tips	10 nos.	100 nos.	2. Cutter knives	10 nos.	10 nos.	3. Cane carrier chain	10 mtr.	25 mtr.	4. Cane carrier slats	20 nos.	50 nos..	5. Feeder table chain	10 mtr.	10 mtr.	6. Block type rake elevator chain	1 set	1 set	7. Bush/pin for each type of chain	50 nos.	200 nos.	8. Spare rakes	10 nos.	10 nos.	9. Rope type coupling .	1 set	1 set	10. VFD panel control cards	2 sets	2 sets	11. Motor for each size and ratings upto 50kw	1 no. each	-		
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N.B: Spare parts of Mills (Sl. No. 1-25) are replaced by the above list and others Spares parts of Tender Document are remain same.																																															

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
					21. VFD panel control cards 22. Planetary gear for inter carrier 23. Juice pumps in each size 24. Motor for each size 25. Anti friction bearings for each set	
32	Vol-II	18	3.0	III (Exclusion) (1)	Land Clearance, Dismantling of the equipment, connected pipes, fittings, Electrical Fitting/Panel Board and Pumps to suit the new installation.	Land Clearance
33	Vol-II	19	3.1	2 nd Line	MECHANICAL EQUIPMENT SPECIFICATION FOR NEW MILLING	This line is replaced by, MECHANICAL EQUIPMENT SPECIFICATION FOR NEW PREPARATORY DEVICES of MILL HOUSE
34	Vol-II	20	3.1	B3	B3. Cane Carrier a. Cane Carrier width: 1500mm	B3. Cane Carrier a. Cane Carrier width: 1525 mm
35	Vol-II	20	3.1	B4	B4. Belt Conveyor for Fibrized Cane d. Max. inclination for Rake/ Belt Conveyor : 45/20Deg	B4. Belt Conveyor for Fibrized Cane d. Max. Inclination for Rake/Belt Conveyor: As per design by EPC, considering the crushing Capacity and smooth operation.
36	Vol-II	20	3.1	B5	B5. Cane Chopper c. Motor capacity : 75 HP TEFC 1440 RPM d. Speed of Chopper : 600 RPM	B5. Cane Chopper c. Motor capacity : As per design by EPC considering recommended crushing capacity and performane. d. Speed of Chopper : As per design by EPC, considering recommended crushing capacity and performance.

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
37	Vol-II	21	3.1	B6	B6. Cane Leveler - c. Motor cap : 150 HP TEFC 600 RPM d. Speed of Leveler : 600 RPM	B6. Cane Leveler - c. Motor capacity : As per design by EPC, considering recommended crushing capacity and performance. d. Speed of Leveler : As per design by EPC, considering recommended crushing capacity and performance.
38	Vol-II	21	3.1	B7	B7. Swing Hammer Fibrizor e. No of Drive Motor &cap : 2 Nos 500HP, HT Motor 11KV, TEFC, SPDP Slip Ring	B7. Swing Hammer Fibrizor e. No of Drive Motor &cap : 2 Nos 500HP, HT Motor 11KV, TEFC/ CACA/ SPDP Slip Ring
39	Vol-II	22	3.1	Mechanical Equipment Specification For Sugar Refinery	A. Refinery Equipment B. Sugar Process Equipment	A. Sugar Refinery Equipment: (As per Tender Document Page No. 23 to 27) B. Sugar Plant Process House Equipment: (As per Tender Document Page no. 28 to 33)
40	Vol-II	23	3.1	1 st line	SPECIFICATION FOR REFINERY UPTO CRYSTALLISATION	Replaced by - SPECIFICATION FOR REFINERY UPTO De-COLOURIZATION
41	Vol-II	27	3.1	(Specification of Refinery) N.B.	-----	This N.B: is included in this page. N.B.: MOC of All Process piping of Refinery plant is SS.
42	Vol-II	30	3.1	(Sugar Plant Process house) B4	B4. Vacuum Pans 40 Ton (2 Nos)	The following Sl. No. xii is included in B4. xii. MOC of Vacuum Pans (2 Nos.) : Body and tube plate are SS 409, and Tube is expandable

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
43	Vol-II	31	3.1	(Sugar Plant Process house) B6	B6. Crystallizers: 45 Tons- 2 Nos.	The following Sl. No. f. is included in B6. f. MOC of Crystallizers: SS 304
44	Vol-II	31	3.1	(Sugar Plant Process house) B8	B8. Centrifugal Machines (Batch Type): ONE	The following Sl. No. i. is included in B8. i. MOC of Centrifugal machine Basket: SS
45	Vol-II	32	3.1	(Sugar Plant Process house) B9	B9. Centrifugal machine (Continuous Type) 2 Nos. a. Size: : 1100 b. Capacity : 10Tons c. Basket angle : 30 deg d. Pug Mill , Magma mixer with planetary drive and Run off tank for Cfore worker : Drive details shall be given by Bidder	B9. B & C Centrifugal machine (Continuous Type): 2 Nos. a. Size: : 1100 b. Capacity : 10Tons c. Basket angle : 30 deg d. Pug Mill , Magma mixer with planetary drive and Run off tank : Details shall be given by Bidder
46	Vol-II	32	3.1	(Sugar Plant Process house) B10	B10. Sugar Hopper	The following Sl. No. d. is included in B10. d. MOC of Sugar Hopper: Carbon Steel
47	Vol-II	32	3.1	(Sugar Plant Process house) B12	B12. Sugar Drier	The following Sl. No. a. is included in B12. a. MOC of Sugar Drier: SS 304

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
48	Vol-II	32	3.1	(Sugar Plant Process house) B13	B13. Auto weighing and Bagging Machine a) Auto Weighing cum Bagging machines for 25, 50 and 100 Kg. b) Auto Packing Machine from 0.5Kg to 5 Kg also to be included	Auto weighing and Bagging Machine a) The Capacity of Auto Weighing cum Bagging machine: 25kg and 50 Kg. Qty. – 1 no. b) Capacity of Auto Packing Machine: 0.5Kg, 1kg, 2kg and 5Kg. Qty -1 no.
49	Vol-II	32	3.1	(Sugar Plant Process house) B15	B 15. Masecuite Pumps with Drives	The following is included in B15. MOC of Masecuite Pump: CI Casing & GM Rotor
50	Vol-II	32	3.1	(Sugar Plant Process house) B16	B 16. Injection Pumps with Drives	The following is included in B16. MOC of Injection Pump : CI Casing, SS Impeller & Carbon Steel Shaft.
51	Vol-II	35	3.1	B (1) (20 no. Bullet point)	▪ 2x60% Secondary air fans with soft starter, handling hot air with 960 rpm synchronous speed.	▪ 2x60% Secondary air fans with soft starter, handling hot air with 960/1480 rpm synchronous speed.
52	Vol-II	38	3.1	3.	--	One No Weigh Bridge (Pitless & Load cell Type) for coal weightment is to be included.
53	Vol-II	49	3.1	9 3rd point	A Single bus bar 11 KV HT switchgear panel consisting of a generator cubicle and grid transformer incomer feeder and outgoing feeders etc., as per specification and electrical schematic diagram.	11 KV HT switchgear panel consisting of a generator cubicle and grid transformer incomer feeder and outgoing feeders etc., as per specification and electrical schematic diagram.
54	Vol-II	57	3.1	2 nd para last line	Dkg/cm ² Sheet	Specifications Submission and Compliance Sheet

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
55	Vol-II	58	3.1	20.e	Amp: 0.6 Amps/ sq.mm	Amp: 1 Amps/ sq.mm
56	Vol-II	61	3.1	13	Speed Main hoist: 2 MPM Auxiliary Hoist: 5 MPM	Variable speed Main hoist: 1-2 MPM Auxiliary Hoist: 3-5 MPM
57	Vol-II	64	3.1	h	Converter transformer	To be deleted
58	Vol-II	64	3.1	Stage 1 2 nd line	A separate taping can be made from bottom of the overhead tank for supply of water for firefighting system.	A separate taping can be made from bottom of the overhead tank with isolating valve for supply of water for firefighting system.
59	Vol-II	65	3.1	7 th point	The civil works pertaining to the construction of concrete chambers for laying the pipe underground and also concrete anchor block will be carried out by the owner .	The civil works pertaining to the construction of concrete chambers for laying the pipe underground and also concrete anchor block will be carried out by the EPC Contractor /Bidder .
60	Vol-II	67	3.1	a	The converter Transformers shall be protected by a deluge valve system consisting of the following	All Transformers shall be protected by a deluge valve system consisting of the following
61	Vol-II	67	3.1	12 th line	The opening of the deluge valve shall be effected locally handling the valve mounted on the deluge valve.	The opening of the deluge valve shall be effected Automatically .
62	Vol-II	69	3.1	Part B A. 4 th point	Only incoming for the Fire Fighting MCC Power cable shall be supplied by Client while all other outgoing power control & instrumentation cables shall be supplied by Bidder.	Cable for incoming supply from Power House PCC to Fire Fighting MCC and all outgoing cables for power control & instrumentation from MCC, shall be supplied by Bidder
63	Vol-II	76	3.2	3.	----	g. VCB (to be included)
64	Vol-II	76	3.2	20	Protection relays	Protection relay 1 + 1 Duplicate relay shall be provided

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
65	Vol-II	77	3.2	j	Master	Master trip relay
66	Vol-II	77	3.2	20	----	m. Low forward power protection in 2 stages (to be included)
67	Vol-II	77	3.2	1.	Synchronising	Synchronising panel for synchronising DG Set, TG Set & Grid Power
68	Vol-II	88	4.0	Table 19 th Row	--	Power: Mega Volt Amp (MVA) (to be included)
69	Vol-II	110	4.0	6.0 (Sl. No. 3) (2 nd Line)	The bus bar shall be of hard drawn high conductivity electrolytic grade (63401 WP) Aluminum conforming to relevant standards.	The bus bar shall be of hard drawn high conductivity electrolytic grade (63401 WP) Copper conforming to relevant standards.
70	Vol-II	110	4.0	6.0	Electrical:	Electrical: The following point is included. <ul style="list-style-type: none"> MOC of Busbar, Busbar trunking, cables and wires, winding of motor & transformer is Copper.
71	Vol-II	150	5.0	Item no. 3.19	Hand Railing 100mm high	Hand Railing 1000mm high
72	Vol-II	151	5.0	Item no. 3.22	Control room & other areas: 40 mm thick vitrified ceramic tiles.	Control room & other areas: 8-12 mm thick vitrified ceramic tiles.
73	Vol-II	152	5.0	3.24	Scope of Civil Works:	Scope of Civil Works: Sl. No. 7, 8 & 9 are deleted.
74	Vol-II	230	8.0	II 4	Moisture of Refined Sugar: 0.04 minimum	Moisture of Refined Sugar: 0.04% maximum

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum																																
75	Vol-II	229-233	8.0	IV		<p>The Performance Parameter of DM Plant and Soft Water Plant is included in this section.</p> <p>IV. DM AND SOFT WATER SPECIFICATION: (Other parameters should be WHO standard)</p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>DM Water</th> <th>Soft Water</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Hardness (PPM)</td> <td>Nil</td> <td>< 0.5</td> </tr> <tr> <td>2</td> <td>pH @ 25°C</td> <td>8.8 to 9.2</td> <td>Neutral (6.8 to 7.2)</td> </tr> <tr> <td>3</td> <td>Electrical Conductivity at 20° C (MS/cm)</td> <td><0.15</td> <td><0.15</td> </tr> <tr> <td>4</td> <td>Silica as SiO2 (mg/l)</td> <td>< 0.02</td> <td>-</td> </tr> <tr> <td>5</td> <td>Total Dissolve Solids (mg/l)</td> <td>< 0.1</td> <td>-</td> </tr> <tr> <td>6</td> <td>Turbidity (ppb)</td> <td>Nil</td> <td>< 50</td> </tr> <tr> <td>5</td> <td>Residual Hydrazine (PPM)</td> <td><0.02</td> <td>-</td> </tr> </tbody> </table>			DM Water	Soft Water	1	Hardness (PPM)	Nil	< 0.5	2	pH @ 25°C	8.8 to 9.2	Neutral (6.8 to 7.2)	3	Electrical Conductivity at 20° C (MS/cm)	<0.15	<0.15	4	Silica as SiO2 (mg/l)	< 0.02	-	5	Total Dissolve Solids (mg/l)	< 0.1	-	6	Turbidity (ppb)	Nil	< 50	5	Residual Hydrazine (PPM)	<0.02	-
		DM Water	Soft Water																																			
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6	Turbidity (ppb)	Nil	< 50																																			
5	Residual Hydrazine (PPM)	<0.02	-																																			
76	Vol-III	202 to 209	1.0	C to 5f5.24	Table	<p>Not Applicable.</p> <p>N.B.: Details of 165 M² Juice Heater and 1000 M² Evaporator Body shall be provided by Bidder as per the Specifications Submission and Compliance sheet format.</p>																																

SL. No.	Volume No.	Page No.	Section No.	Clause No	As per Tender Document issued on 11/06/2017	Addendum
77	Vol-III	217	1.0	14	1. C FORE/ C AFTER WORKER CONTINUOUS CENTRIFUGAL 1.1 C Fore/ C After Machines Number	1. C CONTINUOUS CENTRIFUGAL 1.1 C Machine Number
78	Vol-III	219	1.0	14	2. C AFTER & B WORKER CONTINUOUS CENTRIFUGAL 2.1 Number of Machines for C Fore Curing	1. 'B' CONTINUOUS CENTRIFUGAL 1.1 'B' Machine Number
79	Vol-III	221	1.0	4.1	4.1 B/C AFTER PUG MILL:	4.1 B/C PUG MILL:
80	Vol-III	221	1.0	5.1	a. C FORE MAGMA MIXTURE 5.1f C Fore Magma Mixer shell plate thickness 5.1g C Fore Magma Mixer end plate thickness	5.1 C MAGMA MIXTURE 5.1f C Magma Mixer shell plate thickness 5.1g C Magma Mixer end plate thickness
81	Vol-III	221	1.0	5.3	5.3 C AFTER MAGMA MIXURE	This clause is deleted.

N.B.: The Following documents are available in The Project Office, Chinishilpa Bhaban (9th Floor), 3, Dilkusha C/A, Dhaka. If required the tenderer may contact the Project Director.

- The Existing Machinery List of North Bengal Sugar Mills Ltd.
- The Process Description
- Present Environmental NORMS of Bangladesh
- Topographical Digital Survey Report
- Soil Analysis Report
- Water analysis Report