

1st Corrigendum Notice

Memo No: 03.07.0000.019.14.163.20-2716


Date: 18 November 2020

Ref: IFT No: 03.07.0000.019.14.163.20-2385 Dated: 19.10.2020.

It is notified for all concerned that the following amendments are hereby made in the tender notice as well as in the tender document floated vide office memo no: 03.07.0000.019.14.163.20-2385, Dated: 19.10.2020, Tender Package No: BEZAD1PW1 for Construction of 50m PC Girder Bridge and 4Km Road from Bamonsundar towards Domkhali (Ch 2+000km to 6+000km) at BSMSN.

Name of Criteria or Clause/ Identification	Existing	Amended
Tender Document last selling date	22.11.2020 during office hours	06.12.2020 during office hours
Deadline for Tender Submission	23.11.2020 at 14:00 hours	07.12.2020 at 14:00 hours
Tender Opening Date & Time	23.11.2020 at 14:30 hours	07.12.2020 at 14:30 hours
BoQ & General Specifications		Amended

This corrigendum and amendments shall be integral part of the tender document.


(Md. A. Alim Khan)
Manager (Planning and Development-2)
Phone: +880 29632495
E-mail: manager2.pd@beza.gov.bd

Government of the People's Republic of Bangladesh
Prime Minister's Office
Bangladesh Economic Zones Authority
www.beza.gov.bd

Corrigendum-1 of IFT No: 03.07.0000.019.14.163.20-2385 Dated: 19.10.2020.

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Tender Document last selling date	22.11.2020 during office hours	06.12.2020 during office hours
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Sl. No.	Item No shown in Tender document.	Item description in the Tender Document	Amended Item description	Unit	Corrected Unit	Present BoQ	Amended BoQ
1	1	Erection site office in accordance with the conditions of contract. In addition to the office required for his own use, the contractor shall provide and maintain furnished field office for the use of the Engineer in Charge and his staff. The field office is to have a concrete floor, adequate foundation, brick walls, false ceiling of hard board with seasoned garjan wood frame and painted and all windows are to be glazed and provided with steel grill. Outside and inside wall surface are to be painted on plaster acceptable to the Engineer in Charge. The field office shall be maintained in secure and watertight condition by the contractor until the completion of the contract and shall be provided with electricity, running water and sewerage. All doors shall be fitted with approved locks and windows shall be provided with screen/blinds. Before construction the contractor shall submit plans and drawings showing proposed details and location for the field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer in Charge. The Engineer in Charge may require revision of the plans prior to giving approval for construction. The contractor shall also submit details proposed furniture, fittings and other items of equipment and plant to the Engineer in Charge for approval. These items shall be of the standard quality suitable for site. The office complete with furnishings fittings access roads and hard standings shall be ready for occupation by the Engineer in Charge within 28 days of the date when the contractor first occupies the site. The contractor will provide day and night guards and a tea boy for the field office. At the end the project all materials equipment and plant, furniture fittings recovered form dismantling the office and removing access road will be the property of the contractor. No interim payment shall be certified unless engineer's office with required facilities are constructed and accepted by the Engineer in Charge. "Erect semi-permanent Engineer's site office of minimum 100 sqm plinth area with providing security fencing, 5 KVA stand-by generator, IBM compatible 2 PC with monitor, uninterruptible power supply (UPS), laserjet printer (minimum 25 ppm), photocopier, 6 cft. Freeze, furniture, first aid-box, safety helmet, level/theodolite/EDM, consumables, stationeries etc."	Erection site office in accordance with the conditions of contract. In addition to the office required for his own use, the contractor shall provide and maintain furnished site office for the use of the Engineer in Charge and his staff. The site office is to have a concrete floor, adequate foundation, brick walls, false ceiling of hard board with seasoned garjan wood frame and painted and all windows are to be glazed and provided with steel grill. Outside and inside wall surface are to be painted on plaster acceptable to the Engineer in Charge. The site office shall be maintained in secure and watertight condition by the contractor until the completion of the contract and shall be provided with electricity, running water and sewerage. All doors shall be fitted with approved locks and windows shall be provided with screen/blinds. Before construction the contractor shall submit plans and drawings showing proposed details and location for the site office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the Engineer in Charge. The Engineer in Charge may require revision of the plans prior to giving approval for construction. The contractor shall also submit details proposed furniture, fittings and other items of equipment and plant to the Engineer in Charge for approval. These items shall be of the standard quality suitable for site. The office complete with furnishings fittings access roads and hard standings shall be ready for occupation by the Engineer in Charge within 28 days of the date when the contractor first occupies the site. The contractor will provide day and night guards and a tea boy for the site office. At the end of the Project the site office including all materials, equipment and Plant, furniture, fittings of the office and road will be the property of the Employer. No interim payment shall be certified unless site office with required facilities are constructed and accepted by the Engineer in Charge. "Erect semi-permanent site office of minimum 100 sqm plinth area with providing security fencing, 5 KVA stand-by generator, IBM compatible 2 PC with monitor, uninterruptible power supply (UPS), laserjet printer (minimum 25 ppm), photocopier, 6 cft. Freeze, furniture, first aid-box, safety helmet, level/theodolite/EDM, consumables, stationeries etc."	Each	Each	1.00	1.00
2	14	[RHD_03/10/02 (b)] 40 mm Dense bituminous surfacing wearing course (Plant method) Bitumen Grade 60/70.	[RHD_03/10/02 (b)] 40 mm Dense bituminous surfacing wearing course (Plant method) Bitumen Grade 60/70.	Cum	Cum	1648.00	1678.87
3	21	Implementation of Environmental Management Plan including construction of site office.	Implementation of Environmental Management Plan as per direction of the Engineer in Charge.	LS	LS	1.00	1.00

No shown in Tender document		Item description in the Tender Document	Amended Item description	Unit	Corre cted Unit.	Present BoQ	Amended BoQ
22		Engineer's Site office of minimum 38 Sqm plinth area with providing security fencing , 5KVA standby Generator, furniture, first aid box, level/theodolite, consumables, stationeries etc.	Site office of minimum 38 Sqm plinth area with providing security fencing , 5KVA standby Generator, furniture, first aid box, level/theodolite, consumables, stationeries etc.	L,S	L,S	1.00	0.00
5	26	Driven Cast-in-situ vertical R.C.C pile of Specified diameter and length (length to be measured from the bottom of pile cap to the bottom of shoe), to carry safe working load not less than specified, including cost shoe & all other materials and labour for casting, hoisting, driving etc. and also including cost of dummy lengths of pile and of hire charges of all instruments as necessary but excluding concrete & reinforcement etc. all complete as per drawing, specification and direction of Engineer in Charge.	Driven Cast-in-situ vertical R.C.C pile of Specified diameter and length (length to be measured from the bottom of pile cap to the bottom of shoe), to carry safe working load not less than specified, including cost shoe & all other materials and labour for casting, hoisting, driving etc. and also including cost of dummy lengths of pile and of hire charges of all instruments as necessary but excluding concrete & reinforcement etc. all complete as per drawing, specification and direction of Engineer in Charge.	M	M	800.80	0.00
6	28	PIT (Pile Integrity Test): Conducting Low-Strain Impact Integrity Testing on cast-in-situ/pre-cast piles in accordance with ASTM D 5882 (Standard Test Method for low Strain Impact Integrity Testing of Deep foundations) using pile integrity tester containing calibrated measuring devices like highly sensitive accelerometer, a magnification device, an amplification box, a small impact device (hammer) & a computer with ability to convert data from analog to digital form with graphical display on completion of required setting/driving of piles, preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. mobilizing and demobilizing of equipment, preparation of results in standard forms and compiling final report with recommendations on the tests etc. complete in all respects approved and accepted by the E-I-C. Report should include proper presentable graph of same wave speed (m/sec), impedance reduction, interpretation of results, cross sectional or material changes (if any), length of pile, concrete quality etc. Routine test samples shall be chosen by the E-I-c on random basis. Methodology for conducting PIT shall be submitted to the E-I-C for approval and shall be the part of PIT report. All pile integrity tests shall be performed and analyzed under the supervision of a professional geotechnical engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB)." PIT on 10 (ten) nos. pile or less of a single bridge.	PIT (Pile Integrity Test): Conducting Low-Strain Impact Integrity Testing on cast-in-situ/pre-cast piles in accordance with ASTM D 5882 (Standard Test Method for low Strain Impact Integrity Testing of Deep foundations) using pile integrity tester containing calibrated measuring devices like highly sensitive accelerometer, a magnification device, an amplification box, a small impact device (hammer) & a computer with ability to convert data from analog to digital form with graphical display on completion of required setting/driving of piles, preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. mobilizing and demobilizing of equipment, preparation of results in standard forms and compiling final report with recommendations on the tests etc. complete in all respects approved and accepted by the E-I-C. Report should include proper presentable graph of same wave speed (m/sec), impedance reduction, interpretation of results, cross sectional or material changes (if any), length of pile, concrete quality etc. Routine test samples shall be chosen by the E-I-c on random basis. Methodology for conducting PIT shall be submitted to the E-I-C for approval and shall be the part of PIT report. All pile integrity tests shall be performed and analyzed under the supervision of a professional geotechnical engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB)." PIT on 10 (ten) nos. pile or less of a single bridge.	Set	Set	3.00	4.00
7	40	High Yield Reinforcement Bars	High Yield Reinforcement Bars	Ton	Ton	115.47	146.49
8	41	Prestressing Wire or strand	Prestressing Wire or strand	Ton	Ton	8.67	17.42
9	49	Providing and laying wearing course on deck slab of bridge with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, fcr =33.5 MP a and satisfying a compressive strength fc= 25 MP a at 28 days on standard cylinders as per standard practice of Code AASHTO/ASTM and cement conforming to BDS EN197-1: 2003 CEM-II/A-L/M/V/W 42.5 N, Coarse sand of minimum FM 2.5 and 6mm down well graded crushed stone chips, broken from boulders (preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30), including breaking stone boulders into chips, screening through proper sieves, casting , finishing complete to camber and grade, compacting , curing at least for 28 days, etc. Including cost and carriage of all materials, labour, water, electricity, other incidental cost and etc. all complete as per design, specification & direction of E-I-C.	Providing and laying wearing course on deck slab of bridge with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, fcr =33.5 MP a and satisfying a compressive strength fc= 25 MP a at 28 days on standard cylinders as per standard practice of Code AASHTO/ASTM and cement conforming to BDS EN197-1: 2003 CEM-II/A-L/M/V/W 42.5 N, Coarse sand of minimum FM 2.5 and 6mm down well graded crushed stone chips, broken from boulders (preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30), including breaking stone boulders into chips, screening through proper sieves, casting , finishing complete to camber and grade, compacting , curing at least for 28 days, etc. Including cost and carriage of all materials, labour, water, electricity, other incidental cost and etc. all complete as per design, specification & direction of E-I-C.	Cum	Cum	18.25	0.00
10	50	M.S work in Angles, including fabricating, machining, cutting, bending welding, forging, drilling, revetting, embendding anchor bars and fitting, fixing, local handing etc. complete with energy consumption and supply of labours including the cost of materials as per design, specification and direction of E-I-C. (GRATING)	M.S work in Angles, including fabricating, machining, cutting, bending welding, forging, drilling, revetting, embendding anchor bars and fitting, fixing, local handing etc. complete with energy consumption and supply of labours including the cost of materials as per design, specification and direction of E-I-C. (Grating details shall be made as per direction of the Engineer in Charge)	Kg	Kg	125.07	125.07
11	51	Concrete Guide Post (1.6 m long 200mm dia)	Concrete guide post 1.7 long including foundation, 200mm dia including providing rebars, casting with Class 20 concrete, erection, painting with reflective paints and including other necessary works as per the drawing and direction of the Engineer in charge.	Nos	Nos	40.00	40.00

Item No. shown in Tender document		Item description in the Tender Document	Amended Item description	Unit	Corre cted Unit.	Present BoQ	Amended BoQ
2	52	RCC Palisading (2m post, 150 mmX150mm) casting & driving.	Palisading (Protection wall) by construction of RCC Pre-cast post (3 M long, section 150mmX150mm) including shuttering, rebar, driving, construction of Cap beam, using Class 20 Concrete and providing Brick Wall, all complete as per the attached drawing and direction of the Engineer in Charge.	M	M	168.00	168.00
13	58	Geotextile Filter Fabric (as detailed on the Drawings)	Providing Geotextile filter fabric of 400 GSM, thickness 3mm, Tensile Strength 25Kn/M (As detailed in attached drawing)	Sqm	Sqm	1124.85	1124.85
14	59	Manufacturing and supplying CC blocks with Portland Composite Cement (CEM II/A-M, 42.5 N), Sand (FM \geq 1.5) and shingles (40mm down-graded) to attain a minimum 28 days cylinder strength of 9.0 MPa (suggested mix proportion 1:3:6), including grading, washing shingles, mixing, laying in forms, consolidating, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc. all complete as per direction of the Engineer in charge (Steel shutter to be used) Size 400mmX400mmX100mm.	Manufacturing and supplying CC blocks with Portland Composite Cement (CEM II/A-M, 42.5 N), Sand (FM \geq 1.5) and shingles (40mm down-graded) to attain a minimum 28 days cylinder strength of 15 MPa (suggested mix proportion 1:3:6), including grading, washing shingles, mixing, laying in forms, consolidating, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc. all complete as per direction of the Engineer in charge (Steel shutter to be used) Size 400mmX400mmX100mm.	Each	Each	6730.28	6730.00
15	60	Labour charge for protective works in laying CC blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of E-I-C (Beyond 200m)	Labour charge for protective works in laying CC blocks of different sizes including preparation of base, watering and ramming of base etc. complete as per direction of E-I-C	Cum	Sqm	107.68	1076.80
16	61	Environmental works as per Environmental Management Plan (EMP)		LS	L.S	1.00	0.00
17	67	High Yield Reinforcement Bars	High Yield Reinforcement Bars	Ton	Ton	57.94	63.86
18	69	Providing and laying wearing course on deck slab of bridge with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, fcr=33.5 MPa and satisfying a compressive strength fc=25 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ASTM and cement confirming to BDS EN 2.5 and 6mm down well graded crushed stone chips broken from boulders (preferably stone chips broken from boulders (preferably stone chips form Madhyapara, Dinaipur, LAA value not exceeding 30), including breaking stone boulders into chips, screening through proper sieves, casting, finishing complete to camber and grade, compacting, curing at least for 28 days, etc. including cost and carriage of all materials, labour, water, electricity, other incidental cost etc. all complete as per design, drawing, specification & direction of E-I-C.	Providing and laying wearing course on deck slab of bridge with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, fcr=33.5 MPa and satisfying a compressive strength fc=25 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ASTM and cement confirming to BDS EN 2.5 and 6mm down well graded crushed stone chips broken from boulders (preferably stone chips broken from boulders (preferably stone chips form Madhyapara, Dinaipur, LAA value not exceeding 30), including breaking stone boulders into chips, screening through proper sieves, casting, finishing complete to camber and grade, compacting, curing at least for 28 days, etc. including cost and carriage of all materials, labour, water, electricity, other incidental cost etc. all complete as per design, drawing, specification & direction of E-I-C.	Cum	Cum	12.62	0.00
19	70	Environmental works as per Environmental Management Plan (EMP)	Environmental works as per Environmental Management Plan (EMP)	L.S	L.S	1.00	0.00
20	New Item		Mobilization and demobilization of boring equipment and man-power: at site (drilling rig comprising drilling pipe, drop hammer, tripod, pulley, chain, wrangle, sample collection devices etc. tools and plants; tripol for temporary camp, necessary work-force etc.) (Once for one site)"	per site	per site	0	1.0
21	New Item		Sub-soil investigation by 100 mm dia. wash boring and / or by CPT, DCP etc. including collecting disturbed and undisturbed soil samples in numbers as required for classification of soil, conducting SPT, stratification of layers, analysing physical parameters of soils like Atterberg limits, specific gravity, grain size distribution (by wet seive, hydrometer if required), ground water table location, direct shear test, unconfined compression test, unit weight (dry/weight), natural moisture content; c - ϕ values and other strength parameters to ascertain bearing capacity, skin friction, end bearings etc at every 1.5 m interval as per respective national/international standards and entering all these data and information in necessary tables and graphs and finally furnishing them in the form of standard sub-soil investigation report duly signed by competent Engineer and exploratory office.				
			Bore hole depth from 0 to 45 m	per bore hole	per bore hole	0	4.00

General Specification and Drawing Part:

	Page No./ drawing no.	In Tender Document General Specification./drawing no.	Amended General Specification./drawing no.
1	PN.4.10	"04/01/01© Bored Cast in place piles (Dia 750mm) Linear Meter"	04/01/01© Bored Cast in place piles (Dia 700mm) Linear Meter
2	PN 5.25	"05/01/02d Concrete class-20 (Girder, cross girder, diaphragm, beam etc)" cu meter	"05/01/02d Concrete class-40 (Girder, cross girder, diaphragm, beam etc)" cu meter
3	PN.5.25	"05/01/02d Concrete class-20*(Deck slab, side walk, wheel guard, curb etc)" cu meter	"05/01/02d Concrete class-30 (Deck slab, side walk, wheel guard, curb etc)" cu meter
4	Drawing no. S-10	"Tensioning operation shall be carried out in presence of an experienced Engineer or as directed by the design Unit, LGED"	"Tensioning operation shall be carried out in presence of the Engineer of BEZA"



(Md. A. Alim Khan)

Manager (Planning and Development-2)

Phone: +880 29632495

E-mail: manager2.pd@beza.gov.bd