

Work Completion Report

Name of the Work: Construction and Commissioning of GI Tower with Lightning Arrester and Surge Protection Device (SPD) at Lifting pumping station of SWTP-2, DWASA.

Name of the Contractor: M/s. Vola Enterprise.

Estimated Amount: 9,90,893/-

Contract Amount: 9,41,348.350/-

Work order No. & Date: 46.113.635.00.00.2025-26.113.326, Date: 08/10/2025

Working Period: 60 Days

Actual Starting Date: 14-10-2025

Work Completion Date: 11-12-2025

Description of Executed Work:

ক্রঃ নং	চুক্তি অনুযায়ী কাজের বিবরণ	পরিমাণ
1	Supply, installation, testing and commissioning early streamer emission Air Terminal (ESEAT)/ Collection Volume Method (CVM) as per IEEE 998-2012 or equivalent product having the following technical specification I. Withstand Peak Lightning Current : 200 KA II. Weather condition of work : Material of lightning Air Terminal should be able to work in any environmental condition. So, material of Air Terminal should be stainless steel. III. Dimension of the air terminal : IV. Minimum length : 220 mm 25mm dia solid rod at the bottom of the Air Terminal having M20 male thread to fix on mast. V. Certified advance Time : Maximum 60μ second with a current peak higher than 200ka.. VI. Material of the Air Terminal : Stainless steel VII. Weight : 2.25 - 2.50 kg. VIII. Radius of protection : 79-107 meter at 5 meter height from the plan. IX. Product certification and standards: System should compliant to UL-96 (lightning protection component) (standard of safety)	01 Nos.
2	Supply and installation of insulated Air Terminal mast of the following specification - Length : 2300 mm, Dia : 30mm	01 Nos.
3	Supply and installation of lightning event counter	01 Nos.
4	Supply and installation of earth test box with the following arrangement inside it. Test Joint : (79mm x 50mm x 20mm) made of copper. 30mm x 2mm and dia 8mm, line coupling made of copper.	01 Nos.
5	Supply and drawing of copper made down conductor having dia 12.7 mm or copper strip (30mmx2mm) with fixing holder on vertical and horizontal surface. The fixing shall have 40mm to 50mm length or height	60 Meter.
6	Construction of GI tower with the following specification - GI Pole: Length: 40 '(L-20', D-3"; L-20', D- 2") duly painted with powder coating with epoxy polyester resin . There will be minimum six Guy-wire for erection of the pole properly.	01 Nos.
7	Construction of earthing (2 nos.) for the lightning arrester as per instruction and enclosed diagram (Fig:4.21) and as per direction of the Engineer in the following way I. Soil digging : Size 3000mm*400mm*400mm (2 nos) II. Construction of pit by brick and RCC slab on it. On the top of the slab there will be a hole and a pit cover made by cast iron will be fixed on it. III. Size of the pit : (600mmx600mmx600mm) (2 nos.) IV. Copper plate : (300mmx 150mmx 15mm) (2 nos.) Copper plate will be fixed with the electrode (copper rod or copper strip) by necessary fixing materials made of copper. V. Copper electrode (12.7mm dia copper rod or copper strip (30mmx2mm) Length of the copper rod or strip : minimum 3000mm (10+10) = 20 meter. VI. Ground enhancing materials (40 + 40) = 80 kg.	01 Nos.
8	Surge protection device (SPD) for protection of over-head line connected to LT line. Capacity : 50 KA 4-pole with wiring and SPD box.	01 Nos.


11.12.25





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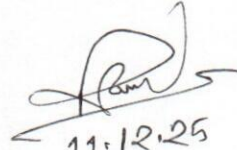
Actual Starting Date: 14-10-2025

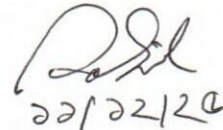
Work Completion Date: 11-12-2025

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9	Supply and installation of Aviation light fittings with LED Lamp. day light sensor. Wiring by IC-2x 1.55 sq.mm cable (NYY) with ECC The Aviation Light fitting shall be fixed on GI pipe (GI Bracket)	01 Nos.
10	Supply and installation of conductor IC- 1 x 95 sq. mm (NYY) single core	60 Meter
11	Supply and installation of Surge protection device (SPD) for Max. frequency: 500 MHz, Max. POE power (4PPOE): 90 W, Max. discharge current max. withstand @ 8/20 μ s, 8XC (1&2+3&6+4&5+7&8 to Earth) : 16 A, Protection Level C3 (10/1000 μ s), 300 applications@10 A, X-X (Line/Line) < 20 V, Protection Level C3 (10/1000 μ s), 300 applications @ 10A, (Pair-Pair, POE) < 100 Impulse current D1 (10/350 μ s), 2 applications, X-C (Line/Earth) : 500 A Nominal discharge current C1 (1.2/50 μ s / 8/20 μ s), 300 applications, X-C (Pair-Pair, POE) : 200 V / 100 A, Capacitance@1MHz, X-C (Line/Earth)	01 Nos.
12	Supply and installation of Surge protection device (SPD) for Lightning Protection Zones (LPZ) : 0 – 3 Max. frequency, in the channel : 100 MHz Impulse current D1 (10/350 μ s), 2 applications, 8X-C (1&2+3&6+4&5+7&8 -Earth) : 500 A AMBIENT MIN : -40, Pinout : (1-2)(3-6)(4-5)(7-8)	01 Nos.

This work is completed as per specification & direction of Engineer in charge and within schedule time. Work completion report could be accepted.


11/12/25
এইচ এম নূর হক অপু
সিএমএমএস কো-অর্ডিনেটর
সাপাশো ফেজ-২ (ওএডএম) বিভাগ
ঢাকা ওয়াসা।


১১/১২/২৫
মোঃ রাব্বিক হোসেন প্রধান
সহকারী প্রকৌশলী
সাপাশো ফেজ-২ (ওএডএম) বিভাগ
ঢাকা ওয়াসা


১১/১২/২৫
সুজন চন্দ্র বর্মণ
নির্বাহী প্রকৌশলী
সাপাশো ফেজ-২ (ওএডএম) বিভাগ
ঢাকা ওয়াসা