



Ref No: KWSP-C1/G/BSEEC/NJS/L/ 1445

Date 14th Mar. 2017

NJS Consulting Co., Ltd, Chittagong Office

Attention:

Mr. Yutaka Niida

OIC - NJS

Karnaphuli Water Supply Project

Chittagong Water Supply & Sewerage Authority

Chittagong, Bangladesh

**Subject :** Submission of Completion Photographs of KWSP-C1

**Our Ref:**

**Your Ref:** C-1 Const. # 856

**dated** 22nd Feb 2017

Dear Sir,

According to your reference above, JV hereby corrects the completion photographs and submit the finalized version with 2 sets of softcopy for your review and approval.

Your kind cooperation will be highly appreciated.

  
\_\_\_\_\_  
Chen Hongye

Project Manager,  
Karnaphuli Water Supply Project  
KWSP-C1

CC:

1. Managing Director: CWASA
2. Project Director, KWSP, CWASA
3. Deputy Project Director, KWSP, CWASA
4. Executive Engineer-I, KWSP, CWASA
5. NJS files.



# **KARNAPHULI WATER SUPPLY PROJECT PHASE 1**

**CONTRACT NO. KWSP C-1**

**(WATER TREATMENT PLANT AND INTAKE)**

## **PROJECT COMPLETION PHOTOGRAPHS**

**FEBRUARY 2017**

### **ENGINEER**

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### **CONTRACTOR**

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## **PART-1**

# **WATER TREATMENT PLANT**

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Panoramic View of Completed  
Water Treatment Plant with 143 Million  
Liter per Day



Panoramic View of Completed  
Water Treatment Plant with 143 Million  
Liter per Day



Panoramic View of Completed  
Water Treatment Plant with 143 Million  
Liter per Day

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Pre-Sedimentation Basin  
at Water Treatment Plant



Completed Receiving Well,  
Flocculator, Clarifier at Water  
Treatment Plant



Completed Water Channel in Clarifier  
at Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Flood Light Between Filter and Clarifier at Water Treatment Plant



Completed Filter and Electrical Control Panel Room at Water Treatment Plant



Completed Air Release Pipe in Filter at Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Surface Wash Pipe in Filter  
at Water Treatment Plant



MCC and PLC Panels in Electrical  
Control Room at Filter



Completed Installation of Local  
Operation Panels and Level Meter in  
Filter at Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation of Surface Wash Pipe and Cables at Cable Tray in Filter at Water Treatment Plant



Completed Installation of Steel Frame with Mechanical Hoist Crane, Drain Pumps, Handrails in Filter Drain Tank of Water Treatment Plant



Panoramic View of Filter Drain Tank at Water Treatment Plant



KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Filter Drain Tank at Water Treatment Plant



Completed Clear Well, Pump Station at Water Treatment Plant



Completed Pump Control Room,  
Ventilation Room in Pump House at  
Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation of 5Nos.  
Transmission Pumps including  
Transmission Pipes at Water  
Treatment Plant



Completed Installation of 5 Tons  
Motorized Overhead Crane in Pump  
Station at Water Treatment Plant



Pump Starter and PLC Panels in  
Pump Control Room, Pump House at  
Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Outlet Pipe in Sludge  
Lagoon "A" Water Treatment Plant



Completed 33KV/3.3KV Sub-Station at  
Water Treatment Plant



Completed Electrical Building and  
Generator Room at Water Treatment  
Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation of MV Panels in  
Switchgear Room, Electrical Building



Completed Installation of Generator  
Control Panels in Switch Gear Room,  
Electrical Building



Completed Installation of LV Main  
MCC Panels in Switchgear Room,  
Electrical Building

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation of 3500KVA  
Caterpillar Standby Generator in  
Generator Room, Electrical Building



Completed Cooling System and  
Silencer at the Back of Electrical  
Building



Daily Fuel Tank and Air Tank in  
Generator Room Inside Electrical  
Building

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Complete Installation of Main Fuel  
Tank Beside Electrical Building



Front View of Chemical Building  
at Water Treatment Plant



Rear View of Chemical Building  
at Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation of 3 Tons  
Motorized Overhead Crane in  
Chemical Building, Water Treatment  
Plant



Completed Installation of Lime and  
Alum Dosing Pumps including  
necessary Pipes and Fittings in  
Chemical Building  
Water Treatment Plant



Front View of Chlorine Building  
at Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation of 3 Tons  
Motorized Overhead Crane in Chlorine  
Building, of Water Treatment Plant



Completed Installation of Chlorinator  
including Piped and Fittings in  
Chlorine Building  
Water Treatment Plant



Front View of Completed  
Administration Building  
at Water Treatment Plant



KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Rear View of Completed  
Administration Building  
at Water Treatment Plant



Delivered Office Furniture in  
Administration Conference Room  
Water Treatment Plant



Completed Installation of SCADA  
System in Administration Building  
Control Room  
Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Laboratory Room with Complete Supply of Laboratory Equipment and Laboratory Furniture in Administration Building at Water Treatment Plant



Delivered Furniture, Aluminum Partition at Display Area of Administration Building at Water Treatment Plant



Completed Warehouse at Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

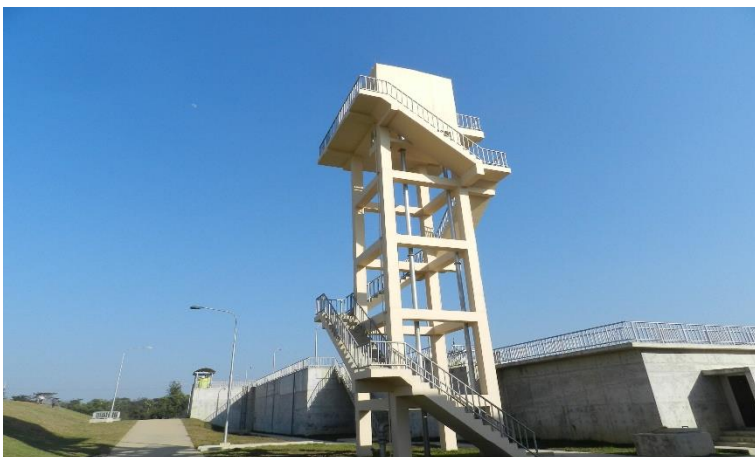
PROJECT COMPLETION PHOTOGRAPHS



Completed Installation of H-Beam  
Frame with Zinc Aluminum Sheet  
Roofing in Warehouse  
at Water Treatment Plant



Completed Guard House at the  
Entrance Gate of Water Treatment  
Plant



Completed Elevated Water Tower  
at Water Treatment Plant

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Main Entrance Gate  
at Water Treatment Plant



Completed Plant Road and  
Surrounding Fence at Water  
Treatment Plant



Completed Installation of Valve and  
Pipe Fittings at Surge Tank2

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation of Valve and  
Pipe Fittings at Surge Tank2



Completed Construction of Surge  
Tank2



## **PART-2**

## **INTAKE**

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Panoramic View of Completed Intake Facility with 150 Million Liter per Day



Panoramic View of Completed Intake Facility with 150 Million Liter per Day



Panoramic View of Completed Intake Facility with 150 Million Liter per Day

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Intake Facility with 150  
Million Liter per Day at the Intake Site



Front View of Completed Intake  
Facility with Perimeter Fence and  
Building



Rear View of Completed Intake Facility  
with Perimeter Fencing and Building



KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Front View of Completed Pump Station at the Intake Site



Rear View of Completed Pump Station at the Intake Site



Completed Inlet Channel including Floating Fence

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation of Pump Motors  
and 5Tons Motorized Overhead Crane  
at Pump Station



Completed Installation Transmission  
Pipes including Valves and Fittings at  
Pump Station



Completed Installation of Transmission  
Pumps including Valves, Pipes and  
Fittings at Pump Station

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation Pump Control  
Electrical Panels at Control Room at  
Pump Station



Completed Installation of 33KV/3.3KV  
Sub-Station at Intake Site



Completed Electrical Building  
at Intake Site

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Installation Electrical  
Panels in Electrical Building



Completed Installation of Electrical  
Panels in Electrical Building



Completed Installation of 1000KVA  
Caterpillar Standby Generator in  
Generator Room  
at Electrical Building

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Main Fuel Tank at the Back of  
Electrical Building



Front View of Completed Office  
Building at Intake Site



Rear View of Completed of Office  
Building at Intake Site

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



PLC Panels and PMS at the Office  
Building at Intake Site



Completed Guard House at Intake Site



Inside Guard House

KARNAPHULI WATER SUPPLY PROJECT  
CWASA/KWSP/C-1/ WATER TREATMENT PLANT AND INTAKE

PROJECT COMPLETION PHOTOGRAPHS



Completed Fence and Gate at Intake  
Site



Completed Construction of Surge  
Tank1



Completed Installation of Valves and  
Pipe Fittings in Surge Tank1