

ঢাকা পানি সরবরাহ ও পয়ঃ নিষ্কাশন কর্তৃপক্ষ

নির্বাহী প্রকৌশলীর কার্যালয়

সংগ্রহ বিভাগ-২, ওয়াসা ভবন (৬ষ্ঠ তলা),

৯৮, কাজী নজরুল ইসলাম এভিনিউ, কাওরান বাজার, ঢাকা-১২১৫।

মালামাল পরিদর্শন ও টেষ্ট রিপোর্টের উপর যৌথ পরিদর্শন কমিটির মতামত

চুক্তি নং-	৪৬.১১৩.৪২৮.০০.০০.০০৮/২০২৪-২০২৫/CGP-সি১৮	তারিখ : ১৬/০২/২০২৫ ইং।
সরবরাহ আদেশ স্মারক নং-	৪৬.১১৩.৪২৮.০০.০০.০০৮.২০২৪-৮২২,	তারিখ : ০৯/০৩/২০২৫ ইং।
কাজের নাম	ঢাকা ওয়াসার এফ. এম বিভাগ এর জন্য ১৫০ ঘনমিটার/ঘন্টা ১১০ মিটার হেড সাব-মার্সিবল পাম্প-মোটর সংগ্রহ কাজ।	
সরবরাহকারীর নাম	মেসার্স ইউনাইটেড ট্রেড সেন্টার, বাইতুশ শরফ কমপ্লেক্স, ১৪৯/এ, এয়ারপোর্ট রোড, ফার্মগেট, ঢাকা-১০০০, বাংলাদেশ।	
ক্রয়কারী বিভাগের নাম	সংগ্রহ বিভাগ-২, ঢাকা ওয়াসা।	
ব্যবহারকারী বিভাগের নাম	ঢাকা ওয়াসার এফ. এম. বিভাগ।	
সরবরাহের স্থান	ভান্ডার বিভাগ, ঢাকা ওয়াসা।	
সরবরাহের তারিখ	০৩/০৯/২০২৫ ইং।	যৌথ পরিদর্শনের তারিখ : ১১/০৯/২০২৫ ইং।

ক্র.নং	মালামালের বিবরণ	চুক্তি অনুযায়ী মালামালের পরিমাণ	একই কিস্তিতে দেয় মালামালের পরিমাণ	Country of Origin
১।	150 m ³ /hr. meter 110 head submersible pump-motor. Brand: DKM & KKB GmbH.	২৪ (চব্বিশ) সেট	২৪ (চব্বিশ) সেট	Germany.

সরবরাহকৃত 150 m ³ /hr. 110-meter head submersible Pump সমূহের তালিকাঃ								Country of Origin
SL	Pump serial	SL	Pump serial	SL	Pump serial	SL	Pump serial	Germany.
1	PS25070303	7	PS25080415	13	PS25080421	19	PS25080427	
2	PS25070304	8	PS25080416	14	PS25080422	20	PS25080428	
3	PS25070305	9	PS25080417	15	PS25080423	21	PS25080429	
4	PS25080412	10	PS25080418	16	PS25080424	22	PS25080430	
5	PS25080413	11	PS25080419	17	PS25080425	23	PS25080431	
6	PS25080414	12	PS25080420	18	PS25080426	24	PS25080432	
সরবরাহকৃত 150 m ³ /hr. 110-meter head submersible Motor সমূহের তালিকাঃ								Country of Origin
SL	motor serial	SL	motor serial	SL	motor serial	SL	motor serial	Germany.
1	MR5225030021	7	MR5225042026	13	MR5225042014	19	MR5225042031	
2	MR5225042011	8	MR5225042017	14	MR5225042021	20	MR5225042027	
3	MR5225042012	9	MR5225030022	15	MR5225042022	21	MR5225042029	
4	MR5225042019	10	MR5225042016	16	MR5225042024	22	MR5225042025	
5	MR522504218	11	MR5225042023	17	MR5225042028	23	MR5225042020	
6	MR5225042030	12	MR5225042015	18	MR5225030023	24	MR5225042013	

যৌথ পরিদর্শন কমিটি কর্তৃক সমুদয় মালামাল পরিদর্শন করা হইল এবং তা বাহ্যিকভাবে সঠিক পাওয়া গেল। বাহ্যিকভাবে সঠিক পাওয়ায় টেষ্টের জন্য নমুনা সংগ্রহ করা হল। এম.আই.এস.টি হইতে প্রাপ্ত টেষ্ট রিপোর্টের ভিত্তিতে সমুদয় মালামাল চূড়ান্তভাবে গ্রহণ/বাতিলের সুপারিশ করা হইবে।

11.09.25
মোঃ মাজহারুল ইসলাম
নির্বাহী প্রকৌশলী
সংগ্রহ বিভাগ-২,
ঢাকা ওয়াসা ও সদস্য-সচিব,
যৌথ পরিদর্শন কমিটি।

11.09.25
সৈয়দ শিহাবুর রহমান
নির্বাহী প্রকৌশলী
ভান্ডার বিভাগ,
ঢাকা ওয়াসা ও সদস্য,
যৌথ পরিদর্শন কমিটি।

11.09.25
শেখ এনায়েত আব্দুল্লাহ
উপ-প্রধান নিরাপত্তা ও গোয়েন্দা
কর্মকর্তা, নিরাপত্তা ও গোয়েন্দা
বিভাগ,
ঢাকা ওয়াসা ও সদস্য,
যৌথ পরিদর্শন কমিটি।

11/09/2025
মোঃ নওশাদ আলম
নির্বাহী প্রকৌশলী,
এফ এম বিভাগ-১,
ঢাকা ওয়াসা ও সদস্য,
যৌথ পরিদর্শন কমিটি।

11.09.25
মোঃ আঃ লতিফ
তত্ত্বাবধায়ক প্রকৌশলী
আর.পি.ই. এন্ড.এম সার্কেল,
ঢাকা ওয়াসা ও আবাসিক, যৌথ
পরিদর্শন কমিটি।

MIST (ME) REF : 23.12.0902.006.021.008.16.09.2025 Date: 16/09/2025; MIST হতে প্রাপ্ত টেষ্ট রিপোর্টের ভিত্তিতে উপরে উল্লেখিত তালিকার পাম্প মোটর সমূহ যৌথ পরিদর্শন কমিটি কর্তৃক চূড়ান্তভাবে গ্রহণের সুপারিশ করা হল।

16.09.2025
মোঃ মাজহারুল ইসলাম
নির্বাহী প্রকৌশলী
সংগ্রহ বিভাগ-২,
ঢাকা ওয়াসা ও সদস্য-সচিব,
যৌথ পরিদর্শন কমিটি।

16.09.25
সৈয়দ শিহাবুর রহমান
নির্বাহী প্রকৌশলী
ভান্ডার বিভাগ,
ঢাকা ওয়াসা ও সদস্য,
যৌথ পরিদর্শন কমিটি।

16.9.25
শেখ এনায়েত আব্দুল্লাহ
উপ-প্রধান নিরাপত্তা ও গোয়েন্দা
কর্মকর্তা, নিরাপত্তা ও গোয়েন্দা
বিভাগ,
ঢাকা ওয়াসা ও সদস্য,
যৌথ পরিদর্শন কমিটি।

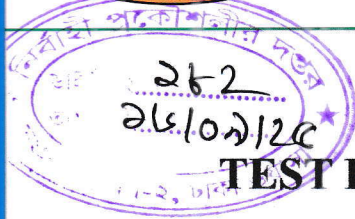
16/09/2025
মোঃ নওশাদ আলম
নির্বাহী প্রকৌশলী,
এফ এম বিভাগ-১,
ঢাকা ওয়াসা ও সদস্য,
যৌথ পরিদর্শন কমিটি।

16.9.25
মোঃ আঃ লতিফ
তত্ত্বাবধায়ক প্রকৌশলী
আর.পি.ই. এন্ড.এম সার্কেল,
ঢাকা ওয়াসা ও আবাসিক, যৌথ
পরিদর্শন কমিটি।



Consultancy, Advisory and Testing Services (CATS)

Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)



TEST REPORT FOR SUBMERSIBLE PUMP

Date: 16-09-2025

CLIENT : Executive Engineer
Shongroh Bivag - 2
Dhaka Wasa, Dhaka

CLIENT'S REF : 46.113.428.00.00.008.2024-281
Date: 11-09-2025

MIST (ME) REF : 23.12.0902.006.021.008.16.09.2025

NAME OF SUPPLIER : M/S United Trade Center

TEST CONDUCTED BY

DEPARTMENT OF MECHANICAL ENGINEERING
MILITARY INSTITUTE OF SCIENCE AND TECHNOLOGY
DHAKA-1216

SDE/AE
16.09.25



Consultancy, Advisory and Testing Services (CATS)

Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)

SAMPLES SUPPLIED

: Submersible Pump
110.00 m (360.89 ft)
150.00 m³/hr (1.47 ft³/sec, 2,500.50 l/min)
Pump No: PS 25210246
Motor No: MR 9225171049

Submersible Pump
110.00 m (360.89 ft)
150.00 m³/hr (1.47 ft³/sec, 2,500.50 l/min)
Pump No: PS 25210242
Motor No: MR 9225171047

Submersible Pump
110.00 m (360.89 ft)
150.00 m³/hr (1.47 ft³/sec, 2,500.50 l/min)
Pump No: PS 25210243
Motor No: MR 9225171039



Consultancy, Advisory and Testing Services (CATS)

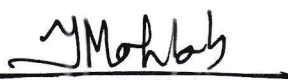
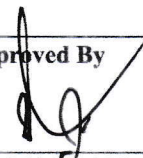
Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)

RESULT SHEET

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	110.00 m (360.89 ft)	Client's Ref and Date:	46.113.428.00.00.008.2024-281 Date: 11-09-2025
Discharge:	150.00 m ³ /hr (1.47 ft ³ /sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210246	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025-1
Motor No:	MR 9225171049	Pump ID:	20250914-0650
Date of Test:	14-09-2025	Ambient Temperature:	27°C
Relative Humidity:	95%	Water Temperature:	26°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

No	Discharge (m ³ /hr)	Total Head (m)	Input Power (kW)	Combined Efficiency (%)
1	88.28	149.58	61.43	58.56
2	103.00	142.59	63.85	62.66
3	116.42	136.29	66.47	65.03
4	125.23	132.10	68.01	66.26
5	140.32	125.12	70.33	68.00
6	151.10	120.94	72.20	68.95
7	159.15	117.10	72.92	69.62
8	168.55	111.16	73.54	69.41
9	181.26	100.67	73.33	67.79
10	193.83	86.66	71.64	63.88

1. At maximum combined efficiency of 69.62%, the pump delivered 159.15 m³/hr (1.56 ft³/sec, 2,653.03 l/min) discharge, at a total head of 117.10 m (384.18 ft) with an input power of 72.92 kW.
2. At 150.00 m³/hr (1.47 ft³/sec, 2,500.50 l/min) rated discharge, the pump developed 121.46 m (398.49 ft) of total head with 68.86% combined efficiency.
3. At 110.00 m (360.89 ft) rated head, the pump discharged 170.39 m³/hr (1.67 ft³/sec, 2,840.36 l/min) with 69.36% combined efficiency.

Prepared By  Tariq Mahbub Assistant Professor, ME Dept	Approved By  Brig Gen Md Awal Khan Head, ME Dept
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MD AWAL KHAN
Brigadier General
Head of Mechanical Engineering Dept.
MIST, Mirpur Cantonment, Dhaka



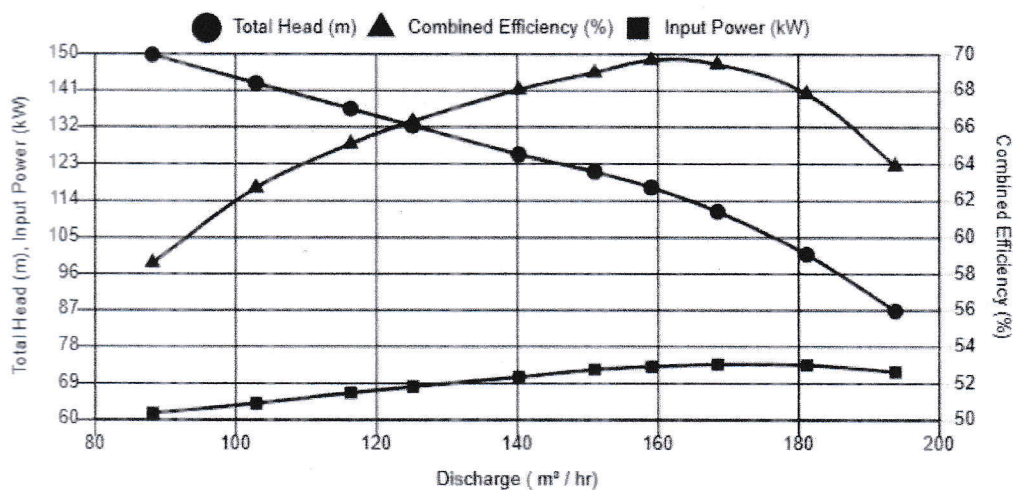
Consultancy, Advisory and Testing Services (CATS)

Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)

PERFORMANCE CURVE

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	110.00 m (360.89 ft)	Client's Ref and Date:	46.113.428.00.00.008.2024-281 Date: 11-09-2025
Discharge:	150.00 m ³ /hr (1.47 ft ³ /sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210246	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025-1
Motor No:	MR 9225171049	Pump ID:	20250914-0650
Date of Test:	14-09-2025	Ambient Temperature:	27°C
Relative Humidity:	95%	Water Temperature:	26°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

Performance Graph



1. At maximum combined efficiency of 69.62%, the pump delivered 159.15 m³/hr (1.56 ft³/sec, 2,653.03 l/min) discharge, at a total head of 117.10 m (384.18 ft) with an input power of 72.92 kW.
2. At 150.00 m³/hr (1.47 ft³/sec, 2,500.50 l/min) rated discharge, the pump developed 121.46 m (398.49 ft) of total head with 68.86% combined efficiency.
3. At 110.00 m (360.89 ft) rated head, the pump discharged 170.39 m³/hr (1.67 ft³/sec, 2,840.36 l/min) with 69.36% combined efficiency.

Prepared By <i>Tariq Mahub</i> Tariq Mahub Assistant Professor, ME Dept	Approved By <i>Brig Gen Md Awal Khan</i> Brig Gen Md Awal Khan Head, ME Dept
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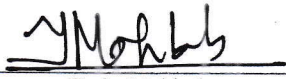
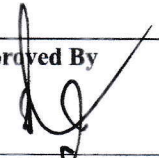
Consultancy, Advisory and Testing Services (CATS)

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Military Institute of Science and Technology (MIST)

TEST OF DIFFERENT PARAMETERS

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	110.00 m (360.89 ft)	Client's Ref and Date:	46.113.428.00.00.008.2024-281 Date: 11-09-2025
Discharge:	150.00 m ³ /hr (1.47 ft ³ /sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210246	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025-1
Motor No:	MR 9225171049	Pump ID:	20250914-0650
Date of Test:	14-09-2025	Ambient Temperature:	27°C
Relative Humidity:	95%	Water Temperature:	26°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

Pump	
Pump Bowl Diameter	190 mm
Rated Head	110.00 m
Rated Discharge	150.00 m ³ /hr
Speed (No Load)	3015 rpm
No of Stages	06
Installation	Vertical Installation
Non-return Valve	Built in with the pump
Cable Guards and Channels	2X Cable guard fitted outside the pump bowl
Motor	
Power Supply	AC, 3-Phase, 400±2.5% V, 50Hz
Power Factor	0.8
Current at Rated Discharge	142.80 amp
Rated Power	72 kW
Starting Method	Star Delta Starter
Motor Diameter	190 mm
Cable Size (with insulation)	3x68.80 mm ²
Cable Size (without insulation)	3x37.5 mm ²
Cable Length	2X 4.35 m

Prepared By  Tariq Mahbub Assistant Professor, ME Dept	Approved By  Brig Gen Md Awal Khan Head, ME Dept
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MD AWAL KHAN
Brigadier General
Head of Mechanical Engineering Dept.
MIST, Mirpur Cantonment, Dhaka



Consultancy, Advisory and Testing Services (CATS)

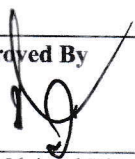
Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)

RESULT SHEET

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	110.00 m (360.89 ft)	Client's Ref and Date:	46.113.428.00.00.008.2024-281 Date: 11-09-2025
Discharge:	150.00 m ³ /hr (1.47 ft ³ /sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210242	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025-2
Motor No:	MR 9225171047	Pump ID:	20250915-0651
Date of Test:	15-09-2025	Ambient Temperature:	27°C
Relative Humidity:	90%	Water Temperature:	25°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

No	Discharge (m ³ /hr)	Total Head (m)	Input Power (kW)	Combined Efficiency (%)
1	88.67	149.59	61.36	58.89
2	101.77	141.88	63.44	62.00
3	114.20	135.59	65.93	63.98
4	132.12	128.61	69.45	66.65
5	145.15	121.62	70.49	68.22
6	151.42	118.13	70.89	68.74
7	158.21	114.64	71.33	69.27
8	163.55	111.14	71.66	69.10
9	176.34	100.65	71.80	67.34
10	191.26	86.65	71.43	63.20

1. At maximum combined efficiency of 69.27%, the pump delivered 158.21 m³/hr (1.55 ft³/sec, 2,637.36 l/min) discharge, at a total head of 114.64 m (376.10 ft) with an input power of 71.33 kW.
2. At 150.00 m³/hr (1.47 ft³/sec, 2,500.50 l/min) rated discharge, the pump developed 118.92 m (390.15 ft) of total head with 68.62% combined efficiency.
3. At 110.00 m (360.89 ft) rated head, the pump discharged 165.29 m³/hr (1.62 ft³/sec, 2,755.45 l/min) with 69.05% combined efficiency.

Prepared By  Tariq Mahbub Assistant Professor, ME Dept	Approved By  Brig Gen Md Awal Khan Head, ME Dept MD AWAL KHAN Brigadier General Head of Mechanical Engineering Dept. MIST, Mirpur Cantonment, Dhaka
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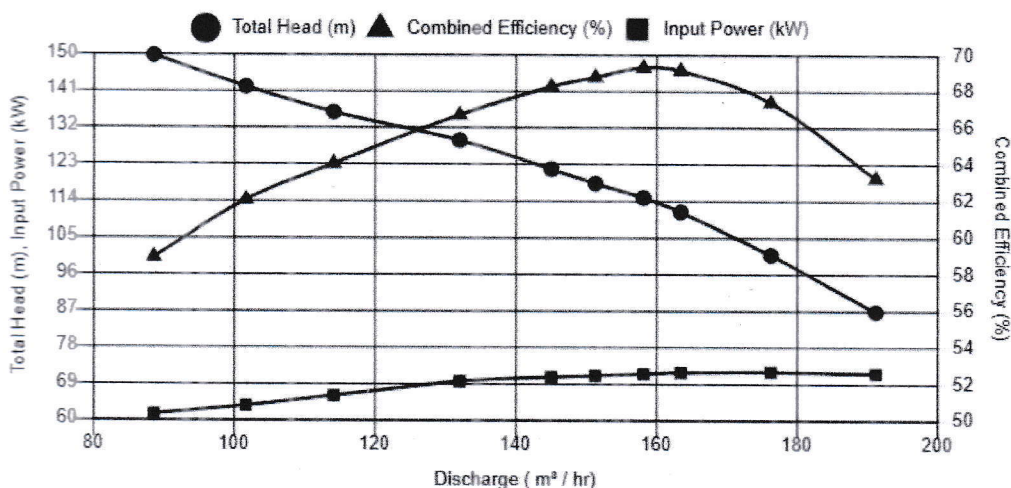
Consultancy, Advisory and Testing Services (CATS)

Department of Mechanical Engineering (ME)
Military Institute of Science and Technology (MIST)

PERFORMANCE CURVE

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	110.00 m (360.89 ft)	Client's Ref and Date:	46.113.428.00.00.008.2024-281 Date: 11-09-2025
Discharge:	150.00 m ³ /hr (1.47 ft ³ /sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210242	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025-2
Motor No:	MR 9225171047	Pump ID:	20250915-0651
Date of Test:	15-09-2025	Ambient Temperature:	27°C
Relative Humidity:	90%	Water Temperature:	25°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

Performance Graph



1. At maximum combined efficiency of 69.27%, the pump delivered 158.21 m³/hr (1.55 ft³/sec, 2,637.36 l/min) discharge, at a total head of 114.64 m (376.10 ft) with an input power of 71.33 kW.
2. At 150.00 m³/hr (1.47 ft³/sec, 2,500.50 l/min) rated discharge, the pump developed 118.92 m (390.15 ft) of total head with 68.62% combined efficiency.
3. At 110.00 m (360.89 ft) rated head, the pump discharged 165.29 m³/hr (1.62 ft³/sec, 2,755.45 l/min) with 69.05% combined efficiency.

Prepared By <i>Tariq Mahbub</i> Tariq Mahbub Assistant Professor, ME Dept	Approved By <i>Brig Gen Md Awal Khan</i> Brig Gen Md Awal Khan Head, ME Dept Brigadier General Head of Mechanical Engineering Dept. MIST, Mirpur Cantonment, Dhaka
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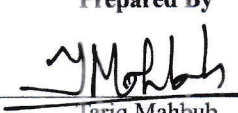
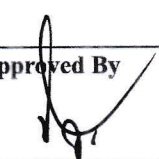
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TEST OF DIFFERENT PARAMETERS

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	110.00 m (360.89 ft)	Client's Ref and Date:	46.113.428.00.00.008.2024-281 Date: 11-09-2025
Discharge:	150.00 m ³ /hr (1.47 ft ³ /sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210242	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025-2
Motor No:	MR 9225171047	Pump ID:	20250915-0651
Date of Test:	15-09-2025	Ambient Temperature:	27°C
Relative Humidity:	90%	Water Temperature:	25°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

Pump	
Pump Bowl Diameter	190 mm
Rated Head	110.00 m
Rated Discharge	150.00 m ³ /hr
Speed (No Load)	3012 rpm
No of Stages	06
Installation	Vertical Installation
Non-return Valve	Built in with the pump
Cable Guards and Channels	2X Cable guard fitted outside the pump bowl
Motor	
Power Supply	AC, 3-Phase, 400±2.5% V, 50Hz
Power Factor	0.8
Current at Rated Discharge	139.75 amp
Rated Power	70.89 kW
Starting Method	Star Delta Starter
Motor Diameter	190 mm
Cable Size (with insulation)	3x68.80 mm ²
Cable Size (without insulation)	3x37.5 mm ²
Cable Length	2X 4.35 m

Prepared By  Tariq Mahbub Assistant Professor, ME Dept	Approved By  Brig Gen Md Awal Khan Head, ME Dept Brigadier General Head of Mechanical Engineering Dept. MIST, Mirpur Cantonment, Dhaka
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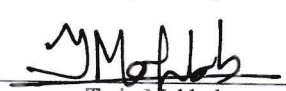
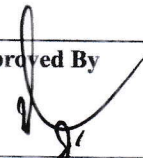
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RESULT SHEET

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	110.00 m (360.89 ft)	Client's Ref and Date:	46.113.428.00.00.008.2024-281 Date: 11-09-2025
Discharge:	150.00 m ³ /hr (1.47 ft ³ /sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210243	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025-3
Motor No:	MR 9225171039	Pump ID:	20250915-0652
Date of Test:	15-09-2025	Ambient Temperature:	27°C
Relative Humidity:	91%	Water Temperature:	25°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

No	Discharge (m ³ /hr)	Total Head (m)	Input Power (kW)	Combined Efficiency (%)
1	90.49	149.59	62.31	59.18
2	102.78	142.59	64.21	62.18
3	116.79	135.59	66.76	64.62
4	125.53	132.10	68.52	65.93
5	134.34	128.61	70.14	67.11
6	141.40	125.12	71.01	67.87
7	153.72	118.13	72.00	68.71
8	160.03	113.94	72.14	68.85
9	167.23	107.64	71.72	68.37
10	175.90	100.65	71.54	67.41
11	191.80	86.65	71.07	63.71

1. At maximum combined efficiency of 68.85%, the pump delivered 160.03 m³/hr (1.57 ft³/sec, 2,667.70 l/min) discharge, at a total head of 113.94 m (373.81 ft) with an input power of 72.14 kW.
2. At 150.00 m³/hr (1.47 ft³/sec, 2,500.50 l/min) rated discharge, the pump developed 120.24 m (394.50 ft) of total head with 68.46% combined efficiency.
3. At 110.00 m (360.89 ft) rated head, the pump discharged 164.53 m³/hr (1.61 ft³/sec, 2,742.77 l/min) with 68.55% combined efficiency.

Prepared By  Tariq Mahbub Assistant Professor, ME Dept	Approved By  Brig Gen Md Awal Khan Head, ME Dept
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MD AWAL KHAN
Brigadier General
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MIST, Mirpur Cantonment, Dhaka



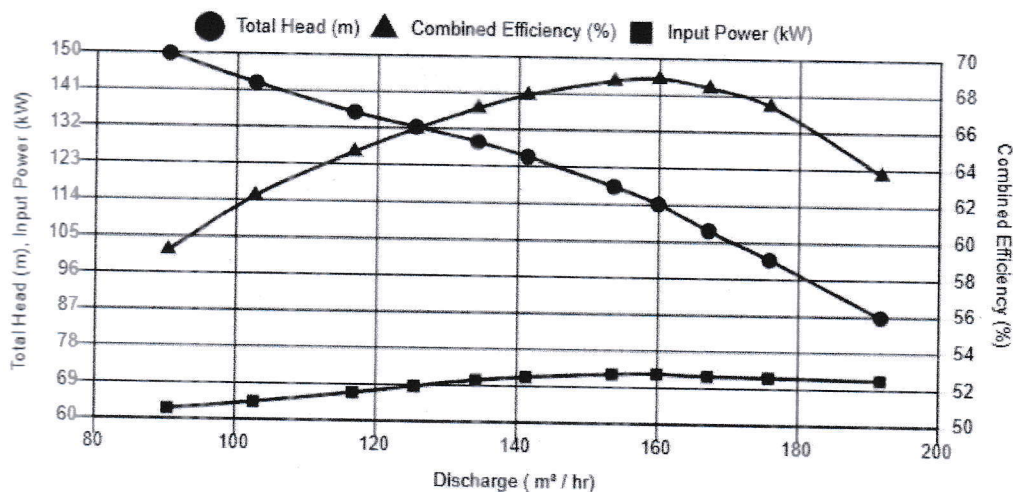
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PERFORMANCE CURVE

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	110.00 m (360.89 ft)	Client's Ref and Date:	46.113.428.00.00.008.2024-281 Date: 11-09-2025
Discharge:	150.00 m ³ /hr (1.47 ft ³ /sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210243	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025-3
Motor No:	MR 9225171039	Pump ID:	20250915-0652
Date of Test:	15-09-2025	Ambient Temperature:	27°C
Relative Humidity:	91%	Water Temperature:	25°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

Performance Graph



1. At maximum combined efficiency of 68.85%, the pump delivered 160.03 m³/hr (1.57 ft³/sec, 2,667.70 l/min) discharge, at a total head of 113.94 m (373.81 ft) with an input power of 72.14 kW.
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Prepared By

Tariq Mahbub

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Approved By

Brigadier General

Brigadier General
Head of Mechanical Engineering Dept.
MIST, Mirpur Cantonment, Dhaka



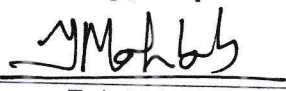
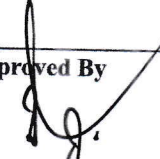
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TEST OF DIFFERENT PARAMETERS

Pump Type:	Submersible Pump	Client:	Executive Engineer Shongroh Bivag - 2 Dhaka Wasa, Dhaka
Head:	110.00 m (360.89 ft)	Client's Ref and Date:	46.113.428.00.00.008.2024-281 Date: 11-09-2025
Discharge:	150.00 m ³ /hr (1.47 ft ³ /sec, 2,500.50 l/min)	Name of Supplier:	M/S United Trade Center
Pump No:	PS 25210243	MIST (ME) Ref:	23.12.0902.006.021.008.16.09.2025-3
Motor No:	MR 9225171039	Pump ID:	20250915-0652
Date of Test:	15-09-2025	Ambient Temperature:	27°C
Relative Humidity:	91%	Water Temperature:	25°C
Rated Speed:	N/A	Operating Voltage:	400±2.5% V

Pump	
Pump Bowl Diameter	190 mm
Rated Head	110.00 m
Rated Discharge	150.00 m ³ /hr
Speed (No Load)	3013 rpm
No of Stages	06
Installation	Vertical Installation
Non-return Valve	Built in with the pump
Cable Guards and Channels	2X Cable guard fitted outside the pump bowl
Motor	
Power Supply	AC, 3-Phase, 400±2.5% V, 50Hz
Power Factor	0.8
Current at Rated Discharge	141.7 amp
Rated Power	71.44 kW
Starting Method	Star Delta Starter
Motor Diameter	190 mm
Cable Size (with insulation)	3x68.80 mm ²
Cable Size (without insulation)	3x37.5 mm ²
Cable Length	2X 4.35 m

Prepared By  Tariq Mahbub Assistant Professor, ME Dept	Approved By  Brig Gen Md. Awaiz Khan Head of Mechanical Engineering Dept. MIST, Mirpur Cantonment, Dhaka
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