

International Islamic University Chittagong

Purchase & Procurement Division

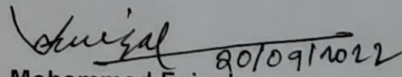
Kumira, Chattogram-4318, Bangladesh
IP Tel.: +8809613230505, Telephone no.: +8802334461900-7
Website: www.iiuc.ac.bd

Date: 20 September 2022

TENDER NOTICE

Sealed quotations are hereby invited from the genuine firms/suppliers for supplying **Lab Equipments for the Dept. of Civil Engineering of IIUC at Kumira, Sitakunda, Chattogram** with the following terms and conditions:

1. Participating firms/suppliers are advised to quote the rate in their official pad. **Lab Equipments for Civil Engineering** must be mentioned on the Envelop.
2. Price quotation must be separated for the different Lab i.e. **1. Open Channel Flow Lab 2. Transportation Lab 3. Environmental Lab**
3. Tender schedule is available at Accounts & Finance Division (ACFD) of IIUC and may be collected paying Tk-200/- (Two hundred taka only) within office time (Sat-Wed, 10:00-4:00PM). Tender Schedule may also be downloaded from the website (www.iiuc.ac.bd). Money receipt must be enclosed with the quotation in both cases.
4. Quotation is to be dropped **on or before 08 October 2022 before 11.00 am** in the tender box kept in the office of Purchase & Procurement Division, Administrative Building-01 (3rd floor), Kumira, Sitakunda, Chattogram. Tender Box shall be opened on the same day in presence of participants or their representatives (if any).
5. The authority of IIUC preserves the right to accept or reject all quotations either partly or in full and is not bound to accept the lowest quotation without giving any reason what's ever.
6. Suppliers shall have to deliver the goods with installation by their own cost/arrangement to the specified place.
7. Quotations are to be dropped with 2.5% earnest money in the form of **Pay Order** favoring IIUC from any scheduled bank.
8. Bill may be paid after taking delivery with user acknowledgment report from **Civil Engineering Department**, deducting VAT/AIT as per government rules & performing other official formalities. If any default is found, payment will be suspended till the defaults are removed.
9. For details or clarifications, interested bidder may contact **Mr. Md. Shamim Ahmed, Lecturer, Civil Engineering, Cell: 01727406986**


20/09/2022

Mohammad Faisal
Director
Purchase & Procurement Division (PPD)
International Islamic University Chittagong



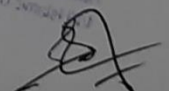


আন্তর্জাতিক ইসলামী বিশ্ববিদ্যালয় চট্টগ্রাম
الجامعة الإسلامية العالمية شيتاغونغ
International Islamic University Chittagong
Department of Civil Engineering (CE), FSE

About the Rate Quotation for the
procurement of Civil Engineering
Laboratory Equipment

Open Channel Engineering
Laboratory



(Dr. Engr. Muhammad Abu Eusuf, P.Eng)
Professor and Chairman, Dept. of Civil Engineering
Int'l Islamic University Chittagong

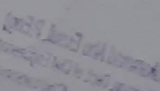

Dr. Engr. Muhammad Abu Eusuf, P.Eng
Professor and Chairman, Dept. of Civil Engineering
Int'l Islamic University Chittagong

A Tender Schedule for the Quotation in order to supply and installation of the Open Channel Engineering Laboratory Equipment's and Apparatus for the department of Civil Engineering, Faculty of Science and Engineering, IUC, Kumira-Chattagram-4318.

ISCED Codes	Course Code	Course Title
0732	*CE-2404	Fluid Mechanics Sessional
0732/ 0715	*CE-3504	Open Channel Flow Sessional
0732	CE-4852	Water Resources Engineering Sessional
0732	CE-4854	Hydraulic Structures Sessional

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
A. Determination of state of flow and critical depth in open channel							
1	Tilting Flume with following apparatus <ul style="list-style-type: none"> • A 76mm wide,250mm high open channel • A jacking system permits the slope of the channel bed to be adjusted between -1% and +3% • Service module: Made from Acrylic • Sump tank capacity: 250 liters (S.S) • Volumetric tank capacity: 40 liters (GRP) • Inlet tank with flow stilling arrangement (GRP) • A Venturi Flume • Sharp broad crested weir Manufacturer: Origin:						
B. Flow over a broad-crested weir							
C. Flow through a Venturi flume							
D. Flow through a Parshall flume							
E. Flow through a cut throat flume							
1	Cutthroat flume with following accessories: <ul style="list-style-type: none"> • Piping / end connections • Flow condition options • Flowmeter mounts • Sampler / parameter mounts • Custom configurations (nesting, extended / reduced sidewalls, etc.) Manufacturer:						


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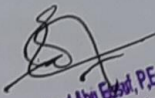

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Origin:							
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No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
Flow through a cut throat flume((Contd.)							
2	Trapezoidal cutthroat flume Manufacturer: Origin:						
3	Custom size cutthroat flume Manufacturer: Origin:						
F. Flow beneath a sluice gate							
1	Tilting flume Manufacturer: Origin:						
2	Sluice gates at the upstream and downstream sections Manufacturer: Origin:						
3	Point gauges and manometer assemblies water depth measurements Manufacturer: Origin:						
4	Automatic temperature sensor Manufacturer: Origin:						
G. Study on hydraulic jump							
1	Tilting flume Manufacturer: Origin:						
2	Sluice gate Manufacturer: Origin:						
3	Point gauges Manufacturer: Origin:						
4	Manometer and scales Manufacturer: Origin:						
5	Pump Manufacturer: Origin:						


 Prof. Dr. Md. Kammar Hossain, P.Engg
 Professor and Chairman, Dept. of Civil Engineering
 An-Nabi Islamic University Chittagong

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remar
		Precision	Warranty	Total Unit	Unit Price		
H. Development of generalized specific energy and specific force curves							
1	Tilting flume Manufacturer: Origin:						
2	Sluice gate Manufacturer: Origin:						
3	Broad crested weir Manufacturer: Origin:						
4	Hook gauges Manufacturer: Origin:						
A. Velocity distribution profile in laboratory flume							
B. Determination of discharge and mean velocity of an open channel							


 (Dr. Engr. Muhammed Abu Ezzat, P.Eng)
 Professor and Chairman, Dept. of Civil Engineering
 IUT Islamic University Chittagong

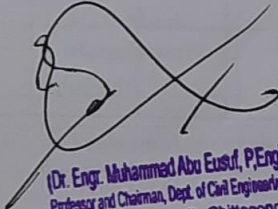
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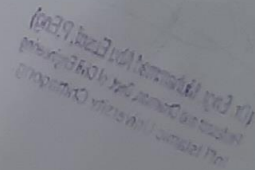


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About the Rate Quotation for the
procurement of Civil Engineering
Laboratory Equipment

Transportation Engineering
Laboratory

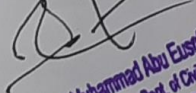

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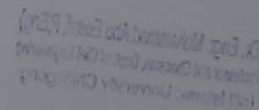


A Tender Schedule for the Quotation in order to supply and installation of the transportation Engineering Laboratory Equipment's and Apparatus for the department of Civil Engineering, Faculty of Science and Engineering, IIUC, Kumira-Chattagram-4318.

ISCED Codes	Course Code	Course Title
0732/ 1041	CE3506	Transportation Engineering (Highway Materials & Traffic Engineering Design) Sessional
0732	*CE-4832	Transportation Engineering-II Sessional: Pavement Design and Traffic Studies
0732	CE-4834	Transportation Engineering-IV Sessional
0732	CE-4836	Transportation Engineering-V Sessional

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
A	Tests on Aggregates: Aggregate Impact value						
1	Impact testing machine, stander, Manufacturer: Origin:						
2	BS test Sieve set, 7pie set, full set Manufacturer: Origin:						
3	A cylindrical steel cup, stander set Manufacturer: Origin:						
4	A straight metal Tamping rod, 600mm Manufacturer: Origin:						
5	Weighing balance, 0.1-30kg Manufacturer: Origin:						
6	A metal hammer weighing 13.5~14.0 kg Manufacturer: Origin:						
7	Means for raising hammer Manufacturer: Origin:						
8	Means for supporting hammer Manufacturer: Origin:						
9	A cylindrical metal measure, Unite weight Manufacturer:						


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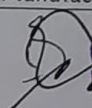

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 Department of Civil Engineering
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	Origin:						
10	Total mass 45 < Mass < 60kg Manufacturer: Origin:						

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
B	Tests on Aggregates: Aggregate Crushing Value						
1	Sieve set-13pieces aet, Manufacturer: Origin:						
2	Tray (4ft x 3ft) Manufacturer: Origin:						
3	Cylindrical metal measure (Different sizes) 5litter,10litter and 15 litter, 3pieces set), Manufacturer: Origin:						
4	Cylindrical mould with base plate (14cm x 15.2 cm)(100mm x200mm) Manufacturer: Origin:						
5	Compression testing machine, 2000kN Manufacturer: Origin:						
6	Plunger and piston(15cm) Manufacturer: Origin:						
7	Steel tamping rod 600mm Manufacturer: - Origin:						
8	An open-ended steel cylinder Manufacturer: Origin:						

C	Tests on Aggregates: Ten Percent Fines Value						
1	Do ACV Mould Manufacturer: Origin:						


D	Tests on Aggregates: Determination Flakiness Index						
1	Sieve set (10, 14, 20, 28, 37, 50 & 63mm) Manufacturer:						

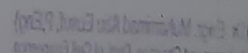

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	Origin:						
2	Metal thickness gauge Manufacturer: Origin:						
3	Tray(4ft x 3ft) Manufacturer: Origin:						

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
E	Tests on Aggregates: Determination of Elongation Index						
1	Sieve set (10, 14, 20, 28, 37, 50 & 63mm) Manufacturer: Origin:						
2	Balance 0.1-30kg Manufacturer: Origin:						
3	Tray(4ft x 3ft) Manufacturer: Origin:						
4	Elongation gauge Manufacturer: Origin:						
5	Metal Length gauge Manufacturer: Origin:						

F	Tests on Aggregates: Determination of Angularity Number						
1	Metal cylinder closed at one end of about 0.003 m ³ volume Manufacturer: Origin:						
2	Straight metal Tamping rod 600mm Manufacturer: Origin:						
3	Metal scoop approximately 200X120X50mm Manufacturer: Origin:						
4	BS perforated plate test sieves ,per pieces Manufacturer: Origin:						


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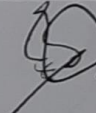

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G	Traffic Engineering: Traffic (Roadway Capacity)						
1	Traffic (Roadway Capacity) N/A Manufacturer: Origin:						

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
H	Traffic Engineering: Traffic (Saturation Flow)						
1	Traffic (Saturation Flow) N/A Manufacturer: Origin:						

I	Tests on Bituminous Material: Specific Gravity of Bituminous Material						
1	Electronic balance, 0.1-30kg Manufacturer: Origin:						
2	Pycnometer Manufacturer: Origin:						
3	Water bath, 6 Hole Manufacturer: Origin:						
4	Glass thermometer (at least count 0.2°F (0.1°C) Manufacturer: Origin:						

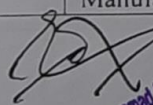
J	Tests on Bituminous Material: Loss on Heating of Oil & Asphaltic Compound						
1	Electric oven, 30ltr Manufacturer: Origin:						
2	Thermometer Manufacturer: Origin:						
3	Container(height 1.38", dia 2.17") Manufacturer: Origin:						
4	Weighing balance, 0.1-30kg Manufacturer: Origin:						


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5	Rotating shelf Manufacturer: Origin:						
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No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
K	Tests on Bituminous Material: Penetration of Bituminous Material						
1	Penetrometer consist with following accessories: <ul style="list-style-type: none"> A penetration needle with plunger An weight Assembly which is Attached Calibrated dial. Manufacturer: Origin:						
2	Water bath, 6 Hole Manufacturer: Origin:						
3	Thermometer for water bath Manufacturer: Origin:						
4	Container(inside diameter 55mm and The depth 35 mm) Manufacturer: Origin:						
5	A hot plate Manufacturer: Origin:						
6	Timing device such as electric timer, stop watch or other spring activated device. Manufacturer: Origin:						
7	Transfer dish for container Manufacturer: Origin:						

L	Tests on Bituminous Material: Softening Point of Bituminous Material (Ring & Ball Method)						
1	Two steel ball (diameter 9.5 mm, weight 3.50 ± 0.05 gm) Manufacturer: Origin:						
2	Two brass ring (inside diameter 15.875 mm, outside diameter 20.6 mm, depth 6.35 mm) Manufacturer:						

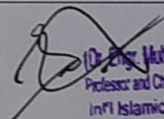

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	Origin:						
3	Two centering guide Manufacturer: Origin:						

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
L	Tests on Bituminous Material: Softening Point of Bituminous Material (Ring & Ball Method) (Contd.)						
4	Metallic support Manufacturer: Origin:						
5	Thermometer(range:-2 to 80°C/30 to 180°F) Manufacturer: Origin:						
6	A glass container (600 ml) Manufacturer: Origin:						
7	A hot plate Manufacturer: Origin:						

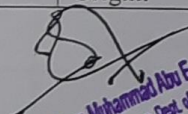
M Tests on Bituminous Material: Solubility of Bituminous Materials							
1	Beaker, 500ml Manufacturer: Origin:						
2	Pipette, Manufacturer: Origin:						
3	Analytical balance Manufacturer: Origin:						
4	Gooch crucible Manufacturer: Origin:						
5	Filter flask, heavy- wall, with side tube 250ml capacity or larger. Manufacturer: Origin:						
6	Vaccum pump Manufacturer: Origin:						
7	oven, 30ltr Manufacturer:						


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	Origin:						
8	Glass fiber pad 3.2cm, 3.5cm or 3.7cm in diameter Manufacturer: Origin:						

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
M	Tests on Bituminous Material: Solubility of Bituminous Materials (Contd.)						
9	Filter tube, 40 to 42 inside diameter Manufacturer: Origin:						
10	Rubber tubing or adapter for holding the Gooch crucible on the filter tube. Manufacturer: Origin:						
11	Erlenmeyer flask, 125ml or other suitable container. Manufacturer: Origin:						
12	Desiccator of suitable size Manufacturer: Origin:						

N Tests on Bituminous Material: Ductility of Bituminous Materials							
1	Ductility testing machine-digital Manufacturer: Origin:						
2	Briquette mould made of brass. Manufacturer: Origin:						
3	Water bath, 30ltr Manufacturer: Origin:						
4	A hot plate Manufacturer: Origin:						
5	Weighing balance, 0.1-30kg Manufacturer: Origin:						


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O	Tests on Bituminous Material: Flash & Fire Points of Bituminous Material (Cleveland Open Cup Method)						
1	Cleveland open tester consists of: <ul style="list-style-type: none"> • Test cup • Heating plate • Test flame applicator • Heater and Support Manufacturer: Origin:						

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
O	Tests on Bituminous Material: Flash & Fire Points of Bituminous Material (Cleveland Open Cup Method) (Contd.)						
2	Thermometer having a range of 20°F to 760°F (-6°C to + 400°C) Manufacturer: Origin:						
3	Shield Manufacturer: Origin:						
4	Test Flame Manufacturer: Origin:						

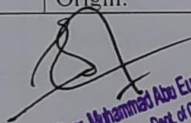
P	CBR and Bituminous Mix Design: California Bearing Ratio (CBR)						
1	CBR set up Manufacturer: Origin:						
2	CBR mould Manufacturer: Origin:						
3	Filter Paper Manufacturer: Origin:						
4	Rammer Manufacturer: Origin:						
5	Plunger Manufacturer: Origin:						
6	Spacer disc Manufacturer: Origin:						
7	Surcharge weight						


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	Manufacturer: Origin:						
8	Slotted weight Manufacturer: Origin:						
9	A loading machine with capacity of at least 10000 lb. (44.5 KN) Manufacturer: Origin:						

No.	Brief Description of Equipment/ Apparatus including manufacturer and origin.	Performance		Price		Total Amount (Tk.)	Remarks
		Precision	Warranty	Total Unit	Unit Price		
P CBR and Bituminous Mix Design: California Bearing Ratio (CBR) (Contd.)							
10	Expansion measuring apparatus Manufacturer: Origin:						
11	Penetration piston Manufacturer: Origin:						
12	Gages. Manufacturer: Origin:						
13	Miscellaneous apparatus such as a mixing bowl, straightedge, scales, soaking tank or pan, oven, fast filtering high wet strength filter paper, dishes and 2 inch, 3/4 inch and no 4 sieve Manufacturer: Origin:						

Q CBR and Bituminous Mix Design: Marshal Method of Mix Design							
1	Marshal Method of Mix Design Manufacturer: Origin:						


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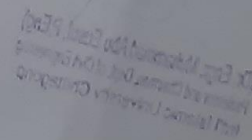


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About the Rate Quotation for the
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Laboratory Equipment

Environmental Engineering
Laboratory



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A Tender Schedule for the Quotation in order to supply and installation of the Environmental Engineering Laboratory Equipment's and Apparatus for the department of Civil Engineering, Faculty of Science and Engineering, IIUC, Kumira-Chattagram-4318.

ISCED Codes	Course Code	Course Title
0712/0732	CE3608	Environmental Engineering Sessional
0531	CHEM-1206	Chemistry (Inorganic and Quantitative Analysis Sessional)
0732	CE-4844	Environmental Pollution Management Sessional
0732	CE-4846	Environmental Pollution Management Sessional

Sl.	Name of Item and description	Quantity	Origin	Unit Price	Total Price
1.	Burette 50ml	70Pcs	Pyrex India		
2.	Measuring Cylinder 100 ml	20Pcs	China		
3.	Measuring Cylinder 10 ml	30Pcs *	China		
4.	Spoon, S.S	20Pcs	BD		
5.	Pipette Filler (Thumb Wheel)	30Pcs	Germany		
6.	Wash Bottle 500ml	40Pcs	Poly Lab, India		
7.	Burette clamp	20Pcs	BD		
8.	Watch glass	50Pcs	BD		
9.	Digital pH meter	5pcs	Hanna Romania		
10.	Standard pH Solution (buffer)	1 Unit	Duksan Korea		
11.	Spectrophotometer uv/vis	1pc	China		
12.	Standard potassium chloro-platinate solution	1 Unit		
13.	Turbidimeter	2pcs	Lutron Taiwan		
14.	Formazin Polymer Standard	1 Unit		
15.	Beaker (2L)	5 pcs	China		
16.	Beaker (1L)	5 pcs	China		
17.	Beaker (500mL)	10 pcs	China		
18.	Beaker (250mL)	10 pcs	China		
19.	Beaker (150mL)	10 pcs	China		
20.	Dropper	30 pcs	BD		
21.	Filter paper (2 µm)	100 pcs	India		
22.	Stirrer (Glass)	30 pcs	BD		
23.	Potassium dichromate	500g	Merck, India		
24.	Sulfuric Acid	1kg	Merck, India		
25.	Methyl orange	500g	Loba, India		
26.	Phenolphthalein	500g	Loba, India		
27.	EDTA	500g	Research Lab, India		
28.	Eriochrome Blac T dye	25g	Research Lab, India		
29.	Auto titrator	10 set		
30.	Auto titration Device	10 set			
31.	Potassium chromate	500g	Loba, India		
32.	Hydrochloric Acid	2.5 liter	Merck, India		
33.	Potassium permanganate	1000g	Merck, India		
34.	Potassium Thiocyanate	500g	Loba, India		
35.	Iron solution	1 Unit		
36.	Nessler tube	20 pcs	Glassco UK		
37.	Manganese sulfate	500g	Merck, India		


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38.	Starch	500g	Loba, India		
39.	Sodium thiosulfate	500g	Merck, India		
40.	Potassium iodide	250g	Merck, India		
41.	BOD Bottle (125ml)	25pcs	China		
42.	Ammonium oxalate	500g	Merck, India		
43.	Alum	500g	Merck, India		
44.	Jar test apparatus	30 pcs		
45.	Potassium iodine crystal	5 Unit		
46.	Acetic acid	2.5 liter	Merck, India		
47.	Chlorine water	5 Kg	BD		
48.	DO Meter (DO 5509)	3 set	Lutron Taiwan		
49.	Conducto-meter	3 set		
50.	Whatman no.40 (1pkt 100Pcs)	100Pcs	Pet whatman UK		
51.	Tarzali	10Pcs	BD		
52.	Silver nitrate	1000g	Merck, India		
53.	Digital Balance (0.01g-600g)	1pcs	AND Korea		
54.	Conical flusk 250ml	70pcs	China		
55.	Volumetric flusk 100ml	70pcs	China		
56.	Volumetric flusk 250ml	70pcs	China		
57.	Funnel 75mm	70pcs	China		
58.	Pipette 10ml	70pcs	Germany		
59.	Shelf (wood)	2pcs		
60.	Di sodium oxalate Merck	1000g	Loba, India		
61.	Ammonium ferrous sulfate	1000g	Merck, India		
62.	Sodium Carbonate	1000g	Merck, India		
63.	Potassium Iodide	2000g	Merck, India		
64.	Sodium thiosulphate 5-hydrate	1000g	Merck, India		
65.	Copper sulphate 5-hydrate	500g	Merck, India		
66.	Ammonium Thiocyanate	500g	Loba, India		
67.	Ammonium Oxalate	500g	Loba, India		
68.	Starch Soluble	500g	Loba, India		
69.	Di Ammonium Hydrogen phosphate	500g	Merck, India		
70.	pH meter	4pcs	Hanna Romania		

Total Taka	
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In words:.	
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