

Soil Science Division PARTNAR Project (Service)											
Items	Sample type	Sample requirement	Platform	Company	Data type	Coverage and data volume	TAT	Price including vat (BDT/sample)	Sample no	Total price (BDT)	N.B.
Metagenomics (16S rRNA for bacterial identification)	Soil eDNA	20 ng/ul, 30 ul; 100-150 gm	Illumina NovaSeq 6000 (PE150, 150bpX2)	Novogene, China	Provide raw data and clean data	>1M X Coverage raw data	5-6 weeks after passing sample's QC	10000	20	200000	including DNA extraction, QC by Bioanalyzer, library preparation, and NGS sequencing using Illumina NovaSeq ** Samples must be resupplied for QC failed samples.
Metagenomics (ITS for fungus identification)	Soil eDNA	21 ng/ul, 30 ul; 100-150 gm	Illumina NovaSeq 6000 (PE150, 150bpX2)	Novogene, China	Provide raw data and clean data	>1M X Coverage raw data	5-6 weeks after passing sample's QC	10000	20	200000	
Metagenomics (AMP for Actinomycetes identification)	Soil eDNA	22 ng/ul, 30 ul; 100-150 gm	Illumina NovaSeq 6000 (PE150, 150bpX2)	Novogene, China	Provide raw data and clean data	>1M X Coverage raw data	5-6 weeks after passing sample's QC	10000	20	200000	
									Total =	600000	

Items	Details	catalog number	Specification	Company	Delivery time	Price excluding vat and Tax (BDT/sample)	Qty	Total price (BDT)
Soil Genomic DNA Extraction Kit (DP336)	Rapid extraction of genomic DNA from various soil samples	DP336-02	50 times	TIAN GEN	10-12 days	37000	2	74000
16S rRNA Primer synthesis	F515 (5'-3') GTGCCAGCMGCCGCGGTAA- R806 (5'-3') GGACTACVSGGGTATCTAAT	N/A	N/A	Gene Create	10-15 days	2500	1	2500
ITS Primer synthesis	ITS1-F (L): Forward: CTTGGTCATTTAGAGGAAGTAA ITS2-Reverse: GCTGCGTTCATCGATGC	N/A	N/A	Gene Create	10-15 days	7000	1	7000
Actinomycetes Primer synthesis	AMV4.5NF (AAGCTCGTAGTTGAATTT CG) AMDGR, (5'- CCCAACTATCCCCTATTAAT CA-T-3')	N/A	N/A	Gene Create	10-15 days	2500	1	2500
AMP Primer synthesis	N/A	N/A	N/A	Gene Create	10-15 days	3000	1	3000
							Total	89000

List of chemicals for Soil Science Division

SI #	Items Description	Unit	Qty.	Packet	Origin
1	Boric acid	kg	1	2	Sigma
2	Kjel Tabs	Pc.	1000	2	Sigma
3	Sodium Hydroxide (CG)	kg	1	2	Sigma
4	Sulphuric acid	L	2.5	10	Sigma
5	Methyl Orange	g	25	2	Sigma
6	Methyl red	g	25	2	Sigma
7	Ethyl alcohol	L	2.5	2	Sigma
8	Hydrochloride acid	L	2.5	10	Sigma
9	Ammonium molybdate	g	500	2	Sigma
10	Sodium bicarbonate	kg	1	2	Sigma
11	Ascorbic acid	g	100	2	Sigma
12	Antimony tartrate	g	50	2	Sigma
13	Ammonium acetate	kg	2.5	2	Sigma
14	Glacial acetic acid	L	2.5	1	Sigma
15	Nitric acid	L	2.5	10	Sigma
16	Lanthanum oxide	g	50	2	Sigma
17	DTPA	g	25	5	Sigma
18	Calcium chloride	kg	1	2	Sigma
19	Calcium dihydrogen phosphate (monohydrate)	kg	1	2	Sigma
20	Standard reference materials (Ca, Mg, Fe, Cu, Zn, As, Cr, Pb, Cd)	ml	250 for each	2 for each	Sigma
21	Phenolphthalein	g	25	2	Sigma
22	Potassium di-chromate	g	500	4	Sigma
23	Phosphoric acid	ml	500	2	Sigma
24	Ferrous sulphate (heptahydrate)	kg	1	2	Sigma
25	O-phenanthroline	g	25	2	Sigma
26	Sodium hexametaphosphate	kg	1	2	Sigma
27	Perchloric acid	ml	1000	5	Sigma
28	Ammonium meta vanadate	g	500	2	Sigma

SN	Product Name	Technical Specifications	Cat. No.	UOM	Brand	Origin	QTY	Unit Price	Total Price	Availability
1	Sodium sulfide	Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Not required	S0954	5gm	TCI	Japan	1	40,000.00	40,000.00	120 days
2	Sodium selenite pentahydrate	Purity: min. 98.0 % Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Not required	AABH99A4 572F-1G	1gm	Sigma	Germany	1	50,000.00	50,000.00	120 days
3	Sodium Tungstate(VI) Dihydrate	Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 10213-10-2 Molecular Formula : Na2WO4·2H2O Molecular Weight : 329.85 Appearance White, crystals - crystalline powder	192-03655	500gm	FUJIFILM Wako Pure Chemical Corporatio n	Japan	1	65,000.00	65,000.00	120 days



		Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 10213-10-2 Molecular Formula : Na2WO4·2H2O Molecular Weight : 329.85 Appearance White, crystals - crystalline powder	190-03651	100gm	FUJIFILM Wako Pure Chemical Corporatio n	Japan	1	25,000.00	25,000.00	120 days
4	Cobalt(II) Chloride	Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 7646-79-9 Molecular Formula : CoCl2 Molecular Weight : 129.84	039-10985	500gm	FUJIFILM Wako Pure Chemical Corporatio n	Japan	1	90,000.00	90,000.00	
		Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 7646-79-9 Molecular Formula : CoCl2 Molecular Weight : 129.84	035-10982	25gm	FUJIFILM Wako Pure Chemical Corporatio n	Japan	1	17,000.00	17,000.00	120 days



5	Nickel(II) Chloride	Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 7718-54-9 Molecular Formula : NiCl2 Molecular Weight : 129.60 Specification Assay : 95.0+%	145-01065	500gm	FUJIFILM Wako Pure Chemical Corporation	Japan	1	80,000.00	80,000.00	120 days
		Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 7718-54-9 Molecular Formula : NiCl2 Molecular Weight : 129.60 Specification Assay : 95.0+%	141-01062	25gm	FUJIFILM Wako Pure Chemical Corporation	Japan	1	15,000.00	15,000.00	120 days



6	(+)-Biotin	Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 58-85-5 Molecular Formula : C10H16N2O3S Molecular Weight : 244.31 Specification Assay : 97.0+% (Titration) Appearance White - slightly brown.	029-08713	1gm	FUJIFILM Wako Pure Chemical Corporatio n	Japan	1	55,000.00	55,000.00	120 days
7	p-Aminobenzoic Acid	Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 150-13-0 Molecular Formula : H2NC6H4COOH Molecular Weight : 137.14	019-02335	500gm	FUJIFILM Wako Pure Chemical Corporatio n	Japan	1	89,000.00	89,000.00	120 days
		Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 150-13-0 Molecular Formula : H2NC6H4COOH Molecular Weight : 137.14	015-02332	25gm	FUJIFILM Wako Pure Chemical Corporatio n	Japan	1	20,000.00	20,000.00	120 days



8	Thiamin Hydrochloride	Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 67-03-8 Molecular Formula : C12H17ClN4OS · HCl Molecular Weight : 337.27	209-00853	100gm	FUJIFILM Wako Pure Chemical Corporation	Japan	1	32,000.00	32,000.00	
		Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 67-03-8 Molecular Formula : C12H17ClN4OS · HCl Molecular Weight : 337.27	201-00852	25gm	FUJIFILM Wako Pure Chemical Corporation	Japan	1	17,000.00	17,000.00	120 days



9	Cyanocobalamin (Vitamin B12)	Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 68-19-9 Molecular Formula : C63H88CoN14O14P Molecular Weight : 1355.37 AppearanceDark red, crystals - powder Melting Point> 300 degrees C Ratio of absorbance	224-00344	1gm	FUJIFILM Wako Pure Chemical Corporatio n	Japan	1	45,000.00	45,000.00	120 days
		Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 68-19-9 Molecular Formula : C63H88CoN14O14P Molecular Weight : 1355.37 AppearanceDark red, crystals - powder Melting Point> 300 degrees C Ratio of absorbance	226-00343	100mg	FUJIFILM Wako Pure Chemical Corporatio n	Japan	1	18,000.00	18,000.00	120 days



10	Resazurin Sodium Salt	Brand: To be mentioned Country of Origin: USA/UK/Japan/Equivalent Catalog/COA/MSDS/Manual: Should be provided Manufacturer's Authorization: Should be provided CAS RN® : 62758-13-8 Molecular Formula : C12H6NNaO4 Molecular Weight : 251.17 Appearance: Dark brownish purple - blackish purple, crystals - powder	191-07581	1gm	FUJIFILM Wako Pure Chemical Corporation	Japan	1	30,000.00	30,000.00	120 days
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‘আসবাবপত্রের তালিকা’

ক্রমিক নং	আসবাবপত্রের বিবরণ	সংখ্যা
১	বিভাগীয় প্রধানের জন্য ফ্রন্ট টেবিল ও চেয়ার	১+১=০২ টি
২	কনফারেন্স টেবিলসহ চেয়ার	২৫ জন বসার জন্য
৩	বিভাগীয় প্রধানের অফিস কক্ষের ডেস্ক ফ্রন্ট চেয়ার	০৪ টি
৪	পিএসও এর জন্য টেবিলসহ চেয়ার	২+২=০৪ টি
৫	২ টি ল্যাবের জন্য টুল	৫+৫=১০ টি
৬	বিভাগীয় প্রধানের পিএ/ইউডি এসিসটেন্ট এর জন্য চেয়ারসহ টেবিল	১+১=০২ টি

