

**Proforma for sending information to prepare annual progress report/  
presentation, 2022-2023**

Table-1. Working Personal (Divisional Lab, Rangpur)

Sl. No.	Designation	Post		
		Total	Fill	Vacant
<b>Officers</b>				
1.	Chief scientific officer (CSO)	01	-	1
2.	Principal scientific officer (PSO)	01	01	-
3.	Senior scientific officer (SSO)	03	02 (Deputation)	01
4.	Scientific officer (SO)	06	04	02
<b>Staffs</b>				
5.	Administrative Officer	01	-	01
6.	Laboratory Assistant	01	01	-
7.	Office Assistant Cum Computer Typist	01	01 (Attachment, R.lab, Dinajpur)	-
8.	Office Assistant Cum Store keeper	01	-	01
9.	Laboratory Attendant	03	03 (Attachment, 01, R. Office, Gaibandha)	-
10.	Office Assistant	01	-	01
11.	Guard	01	01	-

Table-1.1. Working Personal (Regional Lab, Dinajpur)

Sl. No.	Designation	Post		
		Total	Fill	Vacant
<b>Officers</b>				
1.	Principal scientific officer (PSO)	01	01	-
2.	Senior scientific officer (SSO)	02	01	01
3.	Scientific officer (SO)	03	04 (Attachment 01)	-
<b>Staffs</b>				
4.	Computer Operator	01	01 (Attachment)	-
5.	Store Keeper	01	-	01
6.	Office Assistant Cum Store Keeper	01	01	-
7.	Laboratory Attendant	01	01	-
8.	Office Assistant	01	-	01
9.	Guard	01	01	-
10.	clean worker	01	01	-

Table-2. Analyzed soil samples in static laboratory

Sources of soil sample	No. of sample	No. of ingredient
Farmers		
Direct	931	7965
DAE	1026	9176
SRDI	397	3568
SRDI		
Upazila land and soil resource utilization guide	1138	11487
Others	35	315
Research institute		
BARI	29	271
BRRI	-	-
BWMRI	10	90
University (Teacher/Student)	85	310
GOs	58	776
NGOs		
Private	14	120
Quality control	63	324
<b>Total</b>	<b>3786</b>	<b>34402</b>

Table 2.1 Soil pH status of farmer's samples

Sample	Very strongly acidic	Strongly acidic	Slightly acid	Neutral	Slightly alkaline	Strongly alkaline	Very strongly alkaline
	<4.5	4.6-5.5	5.6-6.5	6.6-7.3	7.4-8.4	8.5-9.0	>9.0
2352	252	1307	637	156	-	-	-
%	10.71	55.56	27.08	6.63	-	-	-

Table 2.2 Soil OM status of farmer's samples

Sample	Very Low	Low	Medium	High	Very High
	<1.00	1.00-1.70	1.80-3.40	3.50-5.50	>5.50
2352	336	880	981	137	18
%	14.28	37.41	41.70	5.82	0.76

Table 2.3 Total N status of farmer's samples

Sample	Very Low	Low	Medium	Optimum	High	Very High
	<0.09	0.09-0.18	0.18-0.27	0.27-0.36	0.36-0.45	>0.45
2352	1038	1151	83	36	-	-
%	44.13	48.93	3.52	1.53	-	-

Table 2.4 Available P status of farmer's samples

Sample	Very Low	Low	Medium	Optimum	High	Very High
	<5.25	5.25-10.5	10.51-15.75	15.76-21.00	21.10-26.25	>26.25
2352	38	122	132	184	344	1542
%	1.61	5.18	5.61	7.82	14.62	65.56

Table 2.5 Exchangeable K status of farmer's samples

Sample	Very Low	Low	Medium	Optimum	High	Very High
	<0.09	0.09-0.18	0.18-0.27	0.27-0.36	0.36-0.45	>0.45
2352	156	1254	577	160	122	83
%	6.63	53.31	24.53	6.80	5.18	3.52

Table 2.6 Available S status of farmer's samples

Sample	Very Low	Low	Medium	Optimum	High	Very High
	<7.5	7.50-15.00	15.00-22.50	22.50-30.00	30.00-37.50	>37.50
2352	848	736	339	213	111	105
%	36.05	31.29	14.41	9.05	4.71	4.46

Table 2.7 Avail Zn status of farmer's samples

Sample	Very Low	Low	Medium	Optimum	High	Very High
	<.45	0.45-0.90	0.91-1.35	1.35-1.80	1.81-2.25	>2.25
2352	410	728	442	404	216	152
%	17.43	30.95	18.79	17.17	9.18	6.46

Table 2.8 Available B status of farmer's samples

Sample	Very Low	Low	Medium	Optimum	High	Very High
	<0.15	0.15-0.30	0.31-0.45	0.45-0.60	0.60-0.75	>0.75
1881	499	624	300	205	155	98
%	26.52	33.17	15.94	10.89	8.24	5.20

Table-3. Analyzed plant samples

Source of sample	No of sample	No of ingredient
Student (HSTU/NSTU)	25	65
Total	25	65

Table- 4. Analyzed water samples

Source of sample	No. of sample	No. of ingredient
Student (HSTU/NSTU)	10	40
Total	10	40

Table-5. Status of Upazila land and soil resource utilization guide updating soil

Division	Laboratory	Name of Upazila	Sample	Status
Rangpur	Divisional Lab Rangpur	Patgram, Lalmonirhat	128	Completed & Result Sent
		Hati Banda, Lalmonirhat	125	Completed & Result Sent
		Chilmari, Kurigram	78	Completed & Result Sent
		Rangpur sadar, Rangpur	163	On Going
	Regional Lab, Dinajpur	Domer, Nilphamari	145	Completed
		Roumari, Kurigram	117	In progress
		Sadar, Thakurgoan	330	Pending
		Biral, Dinajpur	178	Pending
		Ranisankail, Thakurgoan	161	Pending
		Hakimpur, Dinajpur	67	Pending
		Sadar, Dinajpur	150	Pending

Table-6. Prepared and distributed fertilizer recommendation card

Name of Client	No of card
Soil test based	2364
OFRS based	99
Upazila land and soil resource utilization guide based	50
Total	2513

Table-7. Training provided by the laboratories

Topic	No. of trainee
Soil samples collection and Identification of Adulterated fertilizer	50
Soil samples collection and Balanced Fertilizer use	25
Identification of Adulterated fertilizer	25
Total	100

Table- 8. Training received by the laboratory staff

Topic	No. of trainee
Officer	
Training on Upazila land and soil resource utilization guide	04
Total	04
Staff	
Training on Skill Development	04
Total	04

Table-9.Source and quantity of analyzed fertilizer samples

Name of fertilizers	Source	Amount		
		Total	Standard	Sub-standard
Urea	DAE (Regitration)			
	DAE (UAO)	09	09	-
	Port	-	-	-
<b>Total</b>		<b>09</b>	<b>09</b>	<b>-</b>
TSP	DAE (UAO)	<b>27</b>	<b>22</b>	<b>5</b>
DAP	DAE (UAO)	<b>19</b>	<b>18</b>	<b>1</b>
Ammonium Sulphate	DAE (UAO)	<b>06</b>	<b>02</b>	<b>04</b>
M O P	DAE (UAO)	<b>17</b>	<b>17</b>	<b>0</b>
Gypsum	DAE (UAO)	52	26	26
	Private	06	04	02
<b>Total</b>		<b>58</b>	<b>30</b>	<b>28</b>
MgSO <sub>4</sub>	DAE (UAO)	162	162	-
	BADC	1	1	-
	Private	1	1	-
<b>Total</b>		<b>164</b>	<b>164</b>	<b>-</b>
ZnSO <sub>4</sub> (Mono)	DAE (UAO)	210	02	208
	BADC	01	-	01
	Private	4	-	04
<b>Total</b>		<b>215</b>	<b>02</b>	<b>213</b>
ZnSO <sub>4</sub> (Hepta)	DAE (UAO)	72	36	36
	Private	1	1	-
<b>Total</b>		<b>73</b>	<b>37</b>	<b>36</b>
Chelated Zinc	DAE (UAO)	22	13	09
	Private	02	1	01
<b>Total</b>		<b>24</b>	<b>14</b>	<b>10</b>
Solubor Boron	DAE (UAO)	116	79	37
	Private	01	1	-
<b>Total</b>		<b>117</b>	<b>80</b>	<b>37</b>
Boric Acid	DAE (UAO)	122	44	78
	BADC	01	01	-
	Private	01	1	-
<b>Total</b>		<b>124</b>	<b>46</b>	<b>78</b>
Fertibor	DAE (UAO)	21	18	03
	Private	01	1	-
<b>Total</b>		<b>22</b>	<b>19</b>	<b>03</b>
Organic Fertilizer	DAE (UAO)	12	04	08
	Private	26	18	08
<b>Total</b>		<b>38</b>	<b>22</b>	<b>16</b>
NPKS	DAE (UAO)	<b>07</b>	<b>04</b>	<b>03</b>
SOP (K <sub>2</sub> SO <sub>4</sub> )	DAE (UAO)	<b>02</b>	<b>02</b>	<b>-</b>
Dolomite	DAE (UAO)	02	-	02
	Private	02	-	02
	BADC	02	02	-
<b>Total</b>		<b>06</b>	<b>02</b>	<b>04</b>
<b>Grand Total</b>		<b>928</b>	<b>490</b>	<b>438</b>

Table- 10. Quality of analyzed fertilizer sample

Name of fertilizer	Amount		
	Total	Standard	Sub-standard
Urea	09	09	-
TSP	27	22	5
DAP	19	18	1
MOP	17	17	0
Gypsum	58	30	28
MgSO <sub>4</sub>	164	164	0
ZnSO <sub>4</sub> monohyate	215	02	213
ZnSO <sub>4</sub> heptahydrate	73	37	36
Chelated zinc	24	14	10
Solubor boron	117	80	37
Boric acid	124	46	78
Fertibor	22	19	3
Organic fertilizer	38	22	16
K <sub>2</sub> SO <sub>4</sub>	2	2	0
MAP	-	-	-
(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	06	02	04
NPKS	7	4	3
Dolomite	06	02	04
Silvamix port	-	-	-
Nutraphos-N	-	-	-
Nutraphos - 24	-	-	-
	-	-	-
<b>Grand Total</b>	<b>928</b>	<b>490</b>	<b>438</b>

Table- 11. Revenue earned

Source	(Tk.)
Soil	1,75,301/-
Water	1,000/-
Plant	6,500/-
Fertilizer	5,70,422/-
<b>Total</b>	<b>7,53,223/-</b>

Table-12: Change in soil Chemical properties of Sudarganj Upazila (Comparison of Upazila Nirdeshikha Updating recent data with previous one)

Table-12.1 Change in soil analytical data of pH, OM, N and P

Soil Group	Land type	Elements							
		pH		OM (%)		N (%)		P (ppm)	
		2002	2022	2002	2022	2002	2022	2002	2022
Domar	High Land	4.90-5.55	4.60-5.15	1.04	1.07	0.604	0.054	7.50	28.84
Palashbari	High Land	4.00-6.00	4.28-5.80	1.06	1.56	0.063	0.078	39.40	60.81
Gangachara	High Land	4.20-5.40	4.46-5.32	1.57	1.86	0.078	0.093	8.23	16.32
	Medium High Land	4.00-6.30	3.97-5.14	1.60	2.60	0.097	0.130	4.65	11.05
	Medium Low Land	4.20-6.50	4.28-4.90	1.70	2.37	0.100	0.119	9.70	11.51
Jamun	High Land	4.10-6.00	3.97-5.72	1.50	2.54	0.072	0.129	20.50	17.82
	Medium High Land	4.00-6.00	4.16-5.12	1.51	1.59	0.092	0.080	11.90	20.08
Kawnia	Medium High Land	4.40-5.80	4.42-4.84	1.35	3.03	0.090	0.157	2.90	9.04
	Medium Low Land	3.90-6.80	4.35-4.83	1.49	2.60	0.110	0.130	7.90	8.29
	Low Land	--	4.85	--	3.37	--	0.169	--	10.07
Farabari	Medium High Land	4.70-5.00	4.60-4.69	1.95	3.27	0.250	0.164	22.40	6.96
Saghata	Medium High Land	4.90-6.20	4.50-5.60	0.99	1.17	0.064	0.058	13.70	13.67
	Medium Low Land	7.20	5.04-5.30	1.25	1.90	0.880	0.059	9.30	5.88
Loskora	Medium Low Land	4.00-5.20	4.25	2.69	2.82	0.180	0.141	10.50	7.48

Sandy Soils of Tista	Medium High Land	6.50	6.22-6.95	0.11	0.62	0.010	0.031	7.90	4.92
	Medium Low Land	6.30-6.70	6.15-6.95	0.18	0.72	0.010	0.036	7.50	7.04
Silty Soils of Tista	Medium High Land	5.60	4.92-5.67	0.87	1.18	0.060	0.059	10.10	13.67
	Medium Low Land	7.00	4.44-5.70	0.82	1.21	0.050	0.061	12.60	13.94
	Low Land	5.50	-	1.42	-	0.100	-	13.30	-
Chilmari	Medium High Land	5.80-6.20	4.85-5.80	0.99	2.59	0.107	0.125	17.30	10.0
Sandy Soils of Jamuna	Medium High Land	6.20	4.51-6.02	0.49	0.73	0.020	0.036	10.90	6.94
	Medium Low Land	6.30-6.70	4.70-5.47	0.18	0.79	0.010	0.039	7.50	7.13
Silty Soils of Jamuna	Medium High Land	6.00-6.40	5.55-6.15	0.85	1.40	0.040	0.070	18.45	11.62
	Medium Low Land	7.00	4.80-6.05	0.82	1.38	0.050	0.069	12.60	13.17
	Low Land	5.50	-	1.42	-	0.100	-	13.30	-

Table-12.2 Change in soil analytical data of K, S, Ca, Mg and B

Soil Group	Land type	Elements									
		K(meq/100g m)		S (ppm)		Ca(meq/100gm)		Mg(meq/100g m)		B(ppm)	
		2002	2022	2002	2022	2002	2022	2002	2022	2002	2022
Domar	High Land	0.07	0.18	7.30	4.37	1.30	2.65	0.32	0.71	1.47	0.59
Palashbari	High Land	0.14	0.26	12.50	10.46	2.00	3.85	0.66	1.29	1.81	0.31
Gangachara	High Land	0.17	0.19	15.20	7.55	2.30	3.65	0.75	2.57	2.16	0.29
	Medium High Land	0.09	0.15	16.05	9.39	3.85	4.15	1.38	1.21	1.79	0.49
	Medium Low	0.13	0.17	29.10	12.11	3.20	3.98	1.50	1.13	0.27	1.83



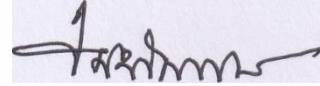
	Land										
Jamun	High Land	0.36	0.22	14.60	7.85	2.40	3.97	0.70	1.19	2.35	0.43
	Medium High Land	0.17	0.17	15.50	9.50	3.20	4.06	1.06	1.10	2.46	0.38
Kawnia	Medium High Land	0.09	0.14	14.50	10.97	2.00	4.37	1.00	1.28	0.24	0.55
	Medium Low Land	0.16	0.18	22.00	15.05	2.50	4.65	1.13	1.28	0.34	0.40
	Low Land	-	0.22	-	23.30	-	6.01	-	1.44	-	0.75
Farabari	Medium High Land	0.10	0.12	23.90	11.29	2.00	3.17	1.15	1.25	0.38	0.55
Saghata	Medium High Land	0.17	0.22	84.4	34.32	2.95	4.00	0.66	0.80	0.21	0.64
	Medium Low Land	0.19	0.15	165.00	7.68	5.00	6.09	1.3	1.63	0.37	0.48
Loskora	Medium Low Land	0.09	0.14	39.90	10.38	3.20	3.10	1.20	1.28	0.24	0.07
Sandy Soils of Tista	Medium High Land	0.03	0.04	3.20	2.80	0.80	1.27	0.20	0.29	0.24	0.49
	Medium Low Land	0.19	0.12	81.30	21.17	0.90	1.45	0.20	0.28	0.16	0.49
Silty Soils of Tista	Medium High Land	0.11	0.15	12.00	39.47	2.10	2.54	0.70	0.71	0.40	0.53
	Medium Low Land	0.24	-	171.60	-	2.60	3.43	0.90	0.78	0.18	0.59
	Low Land	0.50	0.20	13.50	14.36	3.70	-	1.60	-	0.50	-
Chilmari	Medium High Land	0.04	0.07	5.50	5.90	2.40	4.25	0.87	1.24	0.15	0.75
Sandy Soils of Jamuna	Medium High Land	0.05	0.09	6.60	7.04	1.60	1.75	0.40	0.33	0.28	0.57
	Medium Low Land	0.12	0.18	23.00	33.03	0.90	2.02	0.20	0.52	0.19	0.46
	Medium High Land	0.11	0.23	12.00	47.19	2.15	3.63	0.40	0.95	0.18	0.63

Silty Soils of Jamuna	Medium Low Land	0.24	-	171.60	-	2.60	4.20	0.90	1.10	0.18	0.53
	Low Land	-	-			3.70	-	1.60	-	0.50	-

Table-12.3 Change in soil analytical data of Zn, Cu, Fe and Mn

Soil Group	Land type	Elements							
		Zn(ppm)		Cu(ppm)		Fe(ppm)		Mn(ppm)	
		2002	2022	2002	2022	2002	2022	2002	2022
Domar	High Land	0.63	1.88	1.10	1.56	110.6	112.59	10.28	41.83
Palashbari	High Land	0.92	1.55	1.15	1.37	15.50	186.44	18.47	48.07
Gangachar a	High Land	1.04	0.61	1.45	2.86	145.40	228.39	16.10	55.45
	Medium High Land	0.94	0.69	3.11	2.94	98.6	208.63	17.33	27.97
	Medium Low Land	1.06	1.76	4.11	3.08	66.10	238.08	19.03	22.10
Jamun	High Land	1.03	1.07	1.73	2.87	173.3	203.76	19.95	27.70
	Medium High Land	1.17	0.77	3.50	2.68	70.50	246.03	32.38	31.00
Kawnia	Medium High Land	1.85	0.78	4.48	4.55	104.6	206.59	6.00	25.22
	Medium Low Land	2.61	0.95	4.53	4.28	157.50	258.09	11.43	29.01
	Low Land	-	0.90	-	6.88	-	272.04	-	52.99
Farabari	Medium High Land	0.85	0.65	2.75	3.82	133.10	185.74	21.80	20.39
Saghata	Medium High Land	0.83	0.63	2.95	4.63	33.20	110.12	15.19	25.05
	Medium Low Land	1.22	0.42	3.19	3.45	63.35	117.00	7.22	38.10
Loskora	Medium Low Land	1.63	0.94	3.97	5.18	167.70	216.79	8.80	9.62
Sandy Soils of Tista	Medium High Land	0.76	0.23	0.09	0.21	4.80	3.91	0.10	2.42
	Medium Low Land	0.82	0.15	0.32	0.24	6.67	9.90	2.60	4.14

Silty Soils of Tista	Medium High Land	0.86	0.38	1.98	2.22	35.50	61.92	33.50	17.00
	Medium Low Land	0.91	0.31	2.16	2.94	9.00	61.46	9.90	19.48
	Low Land	0.05	-	3.12	-	37.90	-	20.90	-
Chilmari	Medium High Land	0.87	0.48	2.70	4.82	20.30	117.06	23.27	21.92
Sandy Soils of Jamuna	Medium High Land	0.96	0.11	0.86	0.31	7.90	7.76	8.80	4.14
	Medium Low Land	0.82	0.20	0.32	1.01	6.67	43.04	2.60	8.15
Silty Soils of Jamuna	Medium High Land	0.89	0.44	2.04	3.16	12.85	64.71	11.50	18.64
	Medium Low Land	0.91	0.36	2.16	3.93	9.00	64.16	9.90	22.17
	Low Land	1.05	-	3.12	-	37.90	-	20.90	-



১০/১০/২০২৩ খ্রি.

(এ, কে, এম, আমিনুল ইসলাম)

প্রধান বৈজ্ঞানিক কর্মকর্তা (চলতি দায়িত্ব)

পক্ষে

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