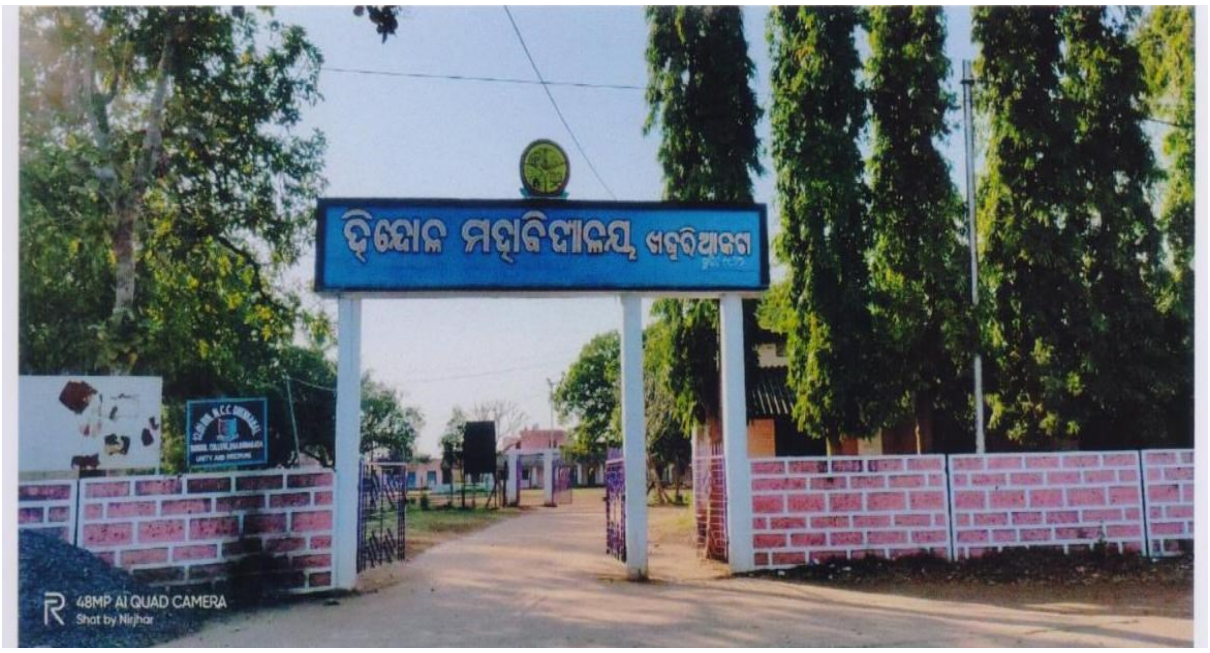
ENVIRONMENT AUDIT REPORT 2014-2021



HINDOL COLLEGE

KHAJURIAKATA, DHENKANAL, ODISHA

Environment Audit Assessment Team

1. **Mr. Binaya Narayan Sahu, Reader in Botany.**
2. **Mr. Siba Sankar Das, Lecturer in Zoology.**
3. **Mrs. Subhalaxmi Das, Lecturer in Botany.**

1. <u>Concept: -</u>

The term “environmental Audit” or “Green Audit” means differently to different people.

The ICC defines Environmental Auditing as a management co reprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/project.

2. **<u>Introduction</u>**: -

A nation’s growth starts from its educational institutions, where the ecology is thought as a prime factor of development associated with environment. As a part of such practice, internal environmental audit is conducted to evaluate the actual scenario at the Campus.

Green Campus

The institution is sincerely concerned about the environmental pollution too early for which many timber yielding plants as well as medicinal plants were planted in the campus since 1990.This is a continuous practice of this institution for which it has reached around 600 trees of different kinds. It not only reduces the greenhouse gases but also supplies huge amount of oxygen to create an eco-friendly environment.

List of Plants in the Campus : -

SL. NO.	Acacia auriculiformis	Common Name	2020-21	2019-20	2018-19	2017-18	2016-17	2015-16	2014-15
1	Psidium guava	Pijuli	5	5	7	9	11	11	12
2	Casuarina equisetifolia	jhaun	3	5	5	5	7	9	10
3	Magnolia Champaka	Champa	2	2	3	5	6	6	9
4	Delonix regia	Gulmohar	5	5	5	5	5	5	5
5	Caesalpinia plucherrima	Radhachuda	3	3	3	3	5	5	7
6	Mimusops elengi	Baula	5	5	5	7	7	7	8
7	Aegle marmelos	Atta	2	2	2	2	5	5	5
8	Annona reticulata	Saguan	22	25	25	28	33	33	37
9	Eucalypatus radiata	Eucalypatus	1	1	3	4	6	7	10
10	Annon squamosa	Atta	2	5	5	5	5	7	7
11	Acacia auriculiformis	Akasia	12	12	15	15	18	23	28
12	Ficus Glomerata	Dimiri	5	5	8	8	10	12	12
13	Monoon longifolium	Debadaru	22	28	35	38	40	48	48
14	Ficus benghalensis	bara	1	1	1	1	1	1	1
15	Delonix regia	Krushnacuda	2	2	5	5	8	8	8
16	Mangitera indica	amba	3	3	3	5	5	5	9
17	Ziziplus jujuba	barakoli	4	4	6	8	8	9	9
18	Aegle marmelos	Bela	5	5	8	8	8	8	9
19	Mimous Pudica	Lajakoli	2	2	3	5	5	7	7
20	Cocos nucifera	coconut	3	3	5	5	5	7	7
21	Madhuca longifolia	mahula	3	3	3	3	3	5	5
22	Ficus religiosa	osta	1	1	1	1	1	1	1

Sail testing report of Hindol College Khajuriakata :-

କୃଷି, ସମବାୟ ଓ କୃଷକ କଲ୍ୟାଣ ବିଭାଗ
କୃଷି ଓ କୃଷକ କଲ୍ୟାଣ ମନ୍ତ୍ରଣାଳୟ
ଭାରତ ସରକାର
ସ୍ଟେଟ ଡ୍ରାର୍ଟମେଣ୍ଟ୍ ଓଫ୍ ଆଗ୍ରିକଲଚର(ଓଡିଶା)

SOIL HEALTH CARD

Swasth Dhara, Khet Hara

ମୃତ୍ତିକା ସ୍ୱାସ୍ଥ୍ୟ କାର୍ଡ୍ ର ନମ୍ବର୍ OR/2020-21/146435026/1
ଚାଷୀର ନାମ Hindol CollegeKhajuriakata
1530
ଅବଧି
ତା: ପ୍ରାପ୍ତି:

ମୃତ୍ତିକା ସ୍ୱାସ୍ଥ୍ୟ କାର୍ଡ୍	
ଚାଷୀର ବିଶଦ ବିବରଣୀ	
ନାମ	Hindol CollegeKhajuriakata
ଠିକଣା	At - Khajuriakata Po- Balimi
ଗ୍ରାମ	ରଙ୍ଗାଗୋଳ
ବ୍ଲକ୍ / ସବ୍-ଡିଭିଜନ	ବାଲୀମୀ
ବ୍ଲକ୍ ର ନାମ	ହିନ୍ଦୋଳ
ଜିଲ୍ଲା	ଢେଙ୍କାନାଳ
ଆଧାର୍ ନମ୍ବର୍	
ମୋବାଇଲ୍ ନମ୍ବର	
ଲିଙ୍ଗ Male,1534:	
ମୃତ୍ତିକା ନମୁନା ର ବିଶଦ ବିବରଣୀ	
ମୃତ୍ତିକା ନମୁନା ସଂଖ୍ୟା	OR/2020-21/146435026/1
ମୃତ୍ତିକା ନମୁନା ସଂଗ୍ରହର ତାରିଖ	04-01-2021
ଖାତା ନମ୍ବର୍	354
ପ୍ଲଟ୍ ନମ୍ବର୍	5444
ଜମିର ପରିମାଣ	
ଜଳସେଚିତ	ଜଳସେଚିତ
ଜିଓ ପୋଜିସୋନ୍ ଅକ୍ଷାଂଶ 20.692912°N ଦ୍ରାଘିମା 85.304066°E	

ପରୀକ୍ଷାଗାରର ନାମ	ଜିଲ୍ଲା କୃଷି କାର୍ଯ୍ୟାଳୟ, ଢେଙ୍କାନାଳ , ଓଡିଶା			
ମୃତ୍ତିକା ପରୀକ୍ଷା ଫଳାଫଳ				
#	ପରିମାପ	ପରୀକ୍ଷା ମୂଲ୍ୟ	ଏକକ	ରେଟିଂଗ୍
1	ପି.ଏଚ	6.80		ଅଳ୍ପ ଅମ୍ଳୀୟ
2	ବୈଦ୍ୟୁତିକ ପରିବାହିତା	0.08	ଡେସୀସିମେନ୍/ ମିଟର୍	
3	ଜୈବିକ ଅଙ୍ଗାର୍(ଓକା)	0.70	%	ମଧ୍ୟମ
4	ଉପଲବ୍ଧ ଯବକ୍ଷାରଜନ	--	କିଲୋଗ୍ରାମ୍/ ହେକ୍ଟର୍	
5	ଉପଲବ୍ଧ ଫସଫରସ	45.30	କିଲୋଗ୍ରାମ୍/ ହେକ୍ଟର୍	ମଧ୍ୟମ
6	ଉପଲବ୍ଧ ପୋଟାସିୟମ	352.00	କିଲୋଗ୍ରାମ୍/ ହେକ୍ଟର୍	ଅଧିକ
7	ଉପଲବ୍ଧ ଗନ୍ଧକ(ସଲଫର୍)	--	ନିୟୁତାଂଶ	
8	ଉପଲବ୍ଧ ଦସ୍ତା	--	ନିୟୁତାଂଶ	
9	ଉପଲବ୍ଧ ଟାଙ୍କଣI(ବୋରନ)	--	ନିୟୁତାଂଶ	
10	ଉପଲବ୍ଧ ଲୌହ	--	ନିୟୁତାଂଶ	
11	ଉପଲବ୍ଧ ମ୍ୟାଙ୍ଗାନିଜ୍	--	ନିୟୁତାଂଶ	
12	ଉପଲବ୍ଧ ତମ୍ବା(କପର)	--	ନିୟୁତାଂଶ	

ସାଧାରଣ ଅନୁମୋଦନ		
1	ଚୂନ / ଜିପ୍ ସମ୍	
ସ୍ଟେଟ ଡ୍ରାର୍ଟମେଣ୍ଟ୍ ଓଫ୍ ଆଗ୍ରିକଲଚର(ଓଡିଶା)		

ଅମଳ ଆଦାୟ ନିମନ୍ତେ ସାର ଅନୁମୋଦନ(ଜୈବିକ ଖତ ସହିତ)

କ୍ରମିକ ସଂଖ୍ୟା	ଫସଲ କିସମ	ସୂଚିତ ଆଦାୟ	ଜୈବିକ ସାର ଓ ପରିମାଣ	ଜୀବାଣୁ ସାର ଓ ପରିମାଣ	ଫର୍ଟିଲାଇଜର୍ କମ୍ବିନେସନ୍-୧ (କେଜି/ ଏକର୍) 1 Hectcares=2.471054000		ଫର୍ଟିଲାଇଜର୍ କମ୍ବିନେସନ୍-୨ (କେଜି/ ଏକର୍) 1 Hectcares=2.471054000	
1	ବାଇଗଣ		ଗୋବର ଖତ 2.02 ଟନ୍/ଏକର୍		ନିମ ଆବରଣଯୁକ୍ତ ୟୁରିଆ	132	ଡାଇ ଆମୋନିୟମ୍ ଫସଫେଟ୍ (18-46-0)	66
					ସିଙ୍ଗଲ ସୁପର ଫସଫେଟ	190	ନିମ ଆବରଣଯୁକ୍ତ ୟୁରିଆ	106
					ପୋଟାସିୟମ କ୍ଲୋରାଇଡ (ମ୍ୟୁରେଟ୍ ଅଫ୍ ପୋଟାସ୍)	34	ପୋଟାସିୟମ କ୍ଲୋରାଇଡ (ମ୍ୟୁରେଟ୍ ଅଫ୍ ପୋଟାସ୍)	34
2	ବିଲାତି ବାଇଗଣ		ଗୋବର ଖତ 3.24 ଟନ୍/ଏକର୍		ନିମ ଆବରଣଯୁକ୍ତ ୟୁରିଆ	176	ଡାଇ ଆମୋନିୟମ୍ ଫସଫେଟ୍ (18-46-0)	88
					ସିଙ୍ଗଲ ସୁପର ଫସଫେଟ	253	ନିମ ଆବରଣଯୁକ୍ତ ୟୁରିଆ	142
					ପୋଟାସିୟମ କ୍ଲୋରାଇଡ (ମ୍ୟୁରେଟ୍ ଅଫ୍ ପୋଟାସ୍)	45	ପୋଟାସିୟମ କ୍ଲୋରାଇଡ (ମ୍ୟୁରେଟ୍ ଅଫ୍ ପୋଟାସ୍)	45

Ph-No :

OFFICE OF THE ASSISTANT EXECUTIVE ENGINEER
RURAL WATER SUPPLY AND SANITATION SUB DIVISION
DHENKANAL , DHENKANAL-759001

Customer Name: Hindol College, Khajuriakata
Sampling Location: Block : Hindol , At-Khajuriakata, Po- Balimi, Dist-Dhenkanal
Sample /Source : Borewell
Sample Collection Date: 25.01.2022
Sample Receipt Date: 25.01.2022
Analysis Completed On : 27.01.2022
Test Report No :DWTL-TR/22/2022/S1-S1
TEST REPORT (SOURCE – Bore Well)

Sl No	PARAMETERS	TEST METHOD	OBTAINED RESULT	Acceptable Limit	Permissible limit in absence of alternative source
1	Temperature in C	Instrument Method	24.5		
2	Colour	Visual Comparison Method	Agreeable	Agreeable	Agreeable
3	Odour	.....	Agreeable	Agreeable	Agreeable
4	Taste	.....	Agreeable	Agreeable	Agreeable
5	PH	Instrument Method	7.20	6.5-8.5	No relaxation
6	Conductivity , µ/cm	Instrument Method	788	1000	1000
7	Turbidity (NTU)	Nepnelometric Method	1.54	1.0	5.0
8	Total Dissolved Solids , mg/l	Instrument Method	512	500 mg/ l	2000 mg/ l
9	Chloride (as CL) , (mg/l)	Argentometric Method	76	250 mg/l	1000 mg/l
10	Total Alkalinity ,mg/l	Titration Method	240	200 mg/l	600 mg/l
11	Total Hardness (as CaCo3)	EDTA Titrimetric Method	316	200 mg/l	600 mg/l
12	Total Iron (as Fe) (mg/l)	Phenanthroline Method	0.72	1.0 mg/l	No relaxation
13	Fluoride (as F) (mg/l)	Ion –Selective –Electrode Method	0.42	1.0 mg/l	1.5 mg/l
14	Nitrate(mg/l)		7.8	45	No relaxation
15	Free Residual Chlorine , mg/l	Iodometric Method	0.2	0.2 mg/l	1.00 mg/l
16	E.Coli	Colilert -18 / DEXX-Quantity Tray (Enzyme Substrate Test)	0.0	Absent	Absent
17	Total Coli form	Colilert -18 / DEXX-Quantity Tray (Enzyme Substrate Test)	0.0	Absent	Absent

Remarks: (I)All parameters are within the permissible limit as pe BIS guide line .
(II) Water sample found Bacteriological Safe.
(II) Samples are collected by their own convenience

28/1/2022

Junior Laboratory Assistant
RWS&S SUB DIVISION ,DHENKANAL

Junior Laboratory Assistant
R.W.S & S Division
Dhenkanal

Assistant Executive Engineer
RWS&S SUB DIVISION ,DHENKANAL

NO :

OFFICE OF THE ASSISTANT EXECUTIVE ENGINEER
RURAL WATER SUPPLY AND SANITATION SUB DIVISION
DHENKANAL , DHENKANAL-759001

To

The Prinicipal
Hindol College ,.Khajurijkata .
Hindol ,Dhenkanal

Subject: Chemical & Bacteriological Testing of water Samples .

Reference: Letter No .02 ,Dated.3.01.2022 of Koya & Company Construction Limited.

Sir,

With reference to the above subject, You are requested to deposit a sum of Rs.1530.00 (Rupees One thousand and five hundred thirty) only towards testing of the fallowing parameters (a) Iron (b) Fluoride (c) Chloride (d) Alkalinity (e) hardness (f) Colour (g) Odour (h) PH (I) turbidity (j) TDS (k) conductivity (l) Residual Chlorine (j) Bacterial of the water samples submitted by you vide your letter under reference .

The rates have been charged as per the resolution issued by the PR & DW Department vide the resolution No. 19180 dated. 3.12.2020 . the details as follows.

SL NO.	Parameters to be tested in water Samples	Unit	Rate in Rs.	Amount in Rs.
1	Iron	Each	70.00	70.00
2	Flouride	Each	120.00	120.00
3	Chloride	Each	50.00	50.00
4	Total Alkalnity	Each	100.00	100.00
5	Total Hardness	Each	100.00	100.00
6	Colour	Each	120.00	120.00
7	Odour			
8	PH			
9	Turbidity			
10	Conductivity			
11	TDS	Each	120.00	120.00
12	Nitrate, mg/l	Each	300.00	300.00
13	Chlorine Demand	Each	30.00	30.00
14	Residual Chlorine	Each	30.00	30.00
15	(I) Total Coli form (II) E.Coli	Each	75.00	75.00
16	Total (For Each Samples)		Total	Rs.1115.00

For 1 No Sample = Rs.1115.00

Assistant Executive Engineer
RWS&S SUB DIVISION ,DHENKANAL

CONCLUSION

The water and soil was tasted and it is found that, both are suitable for the purpose of plantation of trees and the water can be used by animals as well as human beings. The water is found having pH 7.2 which is the acceptable limit. The soil contains adequate amount of minerals which can be used by the plants. The ph of soil is slightly acidic [6.8]It can be concluded that the environment of Hindol college khajuriakata is suitable for the growth of plants and animals.

HOD Botany

HOD, Zool.

Lect. in Botany.

28/02/2022.

28/02/2022

Coordinator
IQAC
Hindol College, khajuriakata

28.2.2022

PRINCIPAL
HINDOL COLLEGE
KHAJURIAKATA