CRITERION-7

METRIC NO. 7.1.3

Quality Audits on Environment and Energy Regularly Undertaken by the Institution

The Institutional Environment and Energy Initiatives

CLARIFICATION GIVEN FOR THE QUERY RAISED BY NAAC IN THE METRIC NO. 7.1.3 ON-

3. ACTION TAKEN REPORT AND ACHIEVEMENTS FOR CLEAN AND GREEN CAMPUS INITIATIVE

Response of the HEI-

The action taken reports and achievement report for clean and green campus initiatives is attached herewith.

CONTENTS

SL.NO.	METRIC NO.	CLARIFICATION OF THE QUERY RAISED BY NAAC
3.	7.1.3	ACTION TAKEN REPORT AND ACHIEVEMENTS FOR CLEAN AND GREEN CAMPUS INITIATIVE a) Action taken report of the Green Initiative Activities undertaken by the College b) Sample copies of the voucher c) A comparative view of the college campus before and after is shown through pictures. d) Few Pictures of Plantation Program e) Sample copy of Certificate received by the students from the Skill Courses f) Photographs of Pedestrian Friendly
		Pathways of the campus.

3. <u>ACTION TAKEN REPORT AND ACHIEVEMENTS FOR</u> <u>CLEAN AND GREEN CAMPUS INITIATIVE</u>

a) ACTION TAKEN REPORT FOR THE GREEN INITIATIVE OF THE COLLEGE

An educational institute needs to maintain greenery within its campus to promote a healthy and congenial environment for the learners. Plants bring feelings of vitality and improve the state of mind by bringing a positive outlook towards life. Keeping this in mind, Jorhat Kendriya Mahavidyalaya has taken efforts throughout the years to develop a clean and green environment in the campus. From planting trees to rainwater harvesting, various green initiatives have been taken to transform the atmosphere of the college campus. Establishment of Botanical Garden, Roof-top Garden, Garden Areas in the college, Rain Water Harvesting and Ground Water Recharging structures, construction of artificial Ponds in the college as water catchment area, Vermicompost Production Unit, LED Light Repairing and Production Centre, Waste Paper Recycling Unit, Renewable Energy resources (Solar Panel, Biogas Digester Tank), Cleanliness drives etc. are some of the practices adopted by the college for maintaining a clean and eco-friendly environment in the campus. Apart from these, pedestrian friendly pathway have been constructed in the campus for easy access to the different areas, Cleanliness programmes are organised by the NSS and NCC units from time to time for maintaining a clean and pollution free campus.

It has been observed that during the course of time, by adopting the green practices, the view and the environment of the college campus have changed to a large extent. The changes can be understood better by the comparative view of the before and after changes of the campus through pictures.

In this report, we are enclosing herewith the list of initiatives that have been taken by the college for maintaining a clean and green campus, along with the expenditure amount, sample copy of the vouchers, a comparative view of the before and after of the college campus where green initiative activities are carried out to clarify the same.

TABLE- GREEN INITIATIVE ACTIVITIES OF THE COLLEGE

SL. NO.	NAME OF THE	ACTION TAKEN REPORT	EXPENDITURE AMOUNT	VOUCHERS
1.	ACTIVITY Set up of Garden Area in the College Campus	Garden areas have been developed in front of the Arts building, Administrative building and Entrance path during the course of time. Regular plantation of seasonal flowers, ornamental and other permanent plants are undertaken by the college.	The Expenditure amount for the Garden area maintenance from 2017-2022 is approx. (Including Earth filling, fertilizer, Plants, Cowdung, Worker, Flower stands etc Rs. 2,77,199.00	
2.	Establishment of Botanical Garden	Botanical Garden was established in the campus on 27 th of February,2021 on the occasion of National Science Day. The garden consists of many plants of economic importance, medicinal importance and ornamental plants.	1.Botanical Garden Works- Rs.10,000.00 2.White-wash- Rs.4800.00 3.Labour Payment -Rs. 3200.00 4. Plants- Rs.11280.00 3.Pakka Work- Rs.31,700.00 4. Pakka Work-Rs.2780.00	1.V/20-21/174 2.V/20-21/181 3. V/20-21/186 4.V/20-21/222 5.V/20-21/171 6.V/20-21/172
3.	Establishment of Roof Top Garden	Roof Top Garden named "Dubori Green House Nursery and Knowledge Hub" was inaugurated on 28th of February 2022. It consists of many plants of economic importance. The produced from the garden is also sold to the faculty members as per their requirement.	1.Vegetable Flower Plants-Rs. 5185.00 2.Labour Charge-Rs.1600	
3	Plantation Programme on World Environment Day,2018	A plantation Programme was undertaken on the occasion of World Environment Day,2018	1. Purchase of Plants- Rs. 5070.00	1.V/18/85

4.	Plantation drive on the occasion of World Environment Day 2021	A plantation Drive was organised on World Environment Day,2021 under the aegis of Science and Technology Forum, JKM, in the college campus.		Purchase of Plants for planting in the campus-Rs. 2361.00 Environment Day Programme-Rs.3000.00	1.V/21/77 2. V/21/67
5.	Plantation Drive on World Environment Day, 2022	A plantation drive was organised on World Environment Day ,2022 with the coordinated support from NGO'S. 1.A Plantation Drive of 100 saplings in the college field at Ailamukhia on 5th of June, 2022 with the help and coordinated support from NGO's like Uxah, Navami Foundation and Ayush Pharmaceutical organisation, Jorhat. 2. Nearly 50 saplings were also planted in the College Garden Area.	-		
6.	Chief Minister Institutional Plantation Programme	1.Plantation Programme organised by the Institution as a part of celebration of Azadi ka Amrit Mahotsav from 17 th July to 15 th August ,2022. 2.The Principal of the college, Teaching and Non-Teaching Staff along with the members of Students Union participated in the programme. 3.The saplings were contributed by the staff of the college.	-		

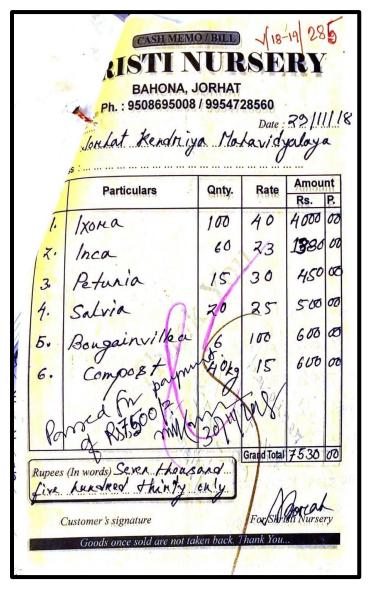
7.	Rain Water and Ground Water Harvesting Structures in the college	1.Rain Water Harvesting and Ground water Recharging Structures were established in the college campus for conserving the water for future use in the session 2021-22. 2.Awareness programme on Rain Water Harvesting is also carried out by the college.	1. Tree Plantation and Rain Water Harvesting -Rs. 7424.00 2.Labour charge-Rs.45410.00 3.Water Connections -Rs.10,000 4.Rod-Rs.53,000.00 5.Pipes, Elbow etcRs.20,405.00 6. Water Tank and stand -Rs.17,800.00	V/21/144, V/21/98, V/21/147, V/21/186, V/21/188 V/21/189 V/21/190 V/21/195 V/21/213 V/21/220 V/21/240 V/21/18 V/21/99 V/21/114 V/22/07
9.	Vermicompost Production Unit	A Vermicompost Production Unit was set up in the college campus and inaugurated on 27 th of Feb, 2021. The vermicompost produced from the Unit is used as organic manure in the garden area and also college earns revenue by selling the product. The product is named as "Krishimitra" and as start-up Product it was established on 28 th of February,2022.	1.Cow dung- Rs.10.000.00 2.Labour Payment-Rs.2400.00 3. Raw Materials-Rs.5000.00 4. Vermi Tank, Pakka work-Rs. 30,000.00 5. Vermi-Shade-Rs. 6,500.00	1. V/20- 21/167 2. V/20- 21/198 3. V/22/35 4. V/21/11 5. V/21/12
10.	Solid Waste Management	For solid waste management, the segregation of waste is carried out at the source. The waste is collected in coloured bins and also in bamboo bins. The biodegradable waste is used in Biogas Digester Tank, Vermicompost Production Tank, Rotatory Compost Cylinder designed by Chemistry Department. The waste paper collected	1.Bamboo made Dustbins Rs.7000.00 2.Dustbin stand - Rs.13800.00	1. V/18- 19/275 2. V/18- 19/322

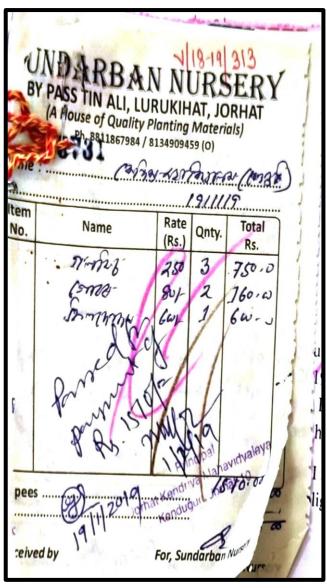
		is recycled to produce handmade paper.		
11.	Installation of	A Photo-Voltaic Solar	1.Solar Panel- Rs.41216.00	V/21/51
	Photo-Voltaic	Panel has been installed		
	Solar Panel	for energy conservation		
12	Skill Courses	The College introduced		
	on	Add on Courses on		
	Vermicompost	Vermicompost		
	Producer, LED	Technician, Solid Waste		
	Light	Management, LED Light		
	Repairing	Repair Technician		
	Technician	Course on 2022.		
	Course and	The Skill Hub Initiative		
	Solid Waste	Courses on		
	Management	Vermicompost Producer		
	is offered by	and LED light Repairing		
	the college.	Techniciam Courses were		
		also introduced in the		
		year 2022.		

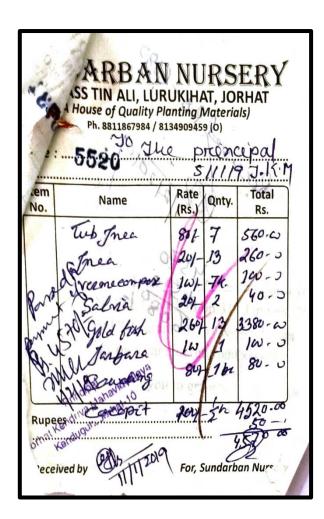
b) SAMPLE COPIES OF THE VOUCHERS

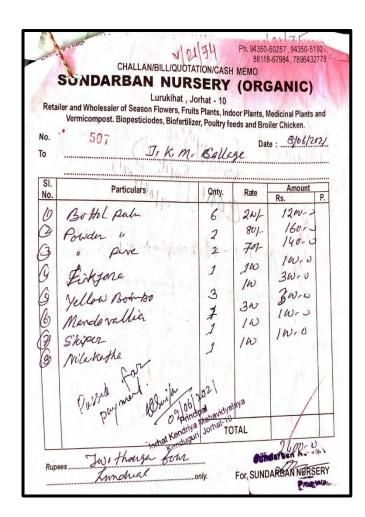
The sample copy of the vouchers on different heads is attached herewith.

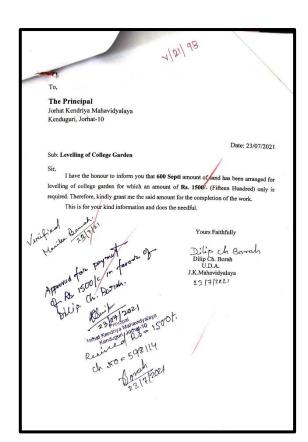
SAMPLE COPY OF VOUCHERS FOR MAINTENANCE OF GARDEN AREA IN COLLEGE CAMPUS

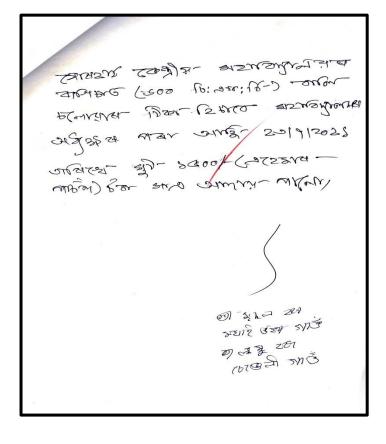














Estd.1981

Re-accredited by NAAC with grade 'B++'

KENDUGURI, JORHAT - 785 010, ASSAM

Phone # 0376-2350009, e-mail # jkmprincipal@rediffmail.com., Fax # 0376-2350009

Website: www.forhatkendriyamahavidyalaya.edu.in

Ref:	

To

The Bank Manager PNB

Cheuniali Branch, Jorhat - 10

Payment of the following Parties From SB A/C No. 0738010100975 of Jorhat Kendriya Mahavidyalaya fund vide Ch.No. 982327, dated - 23-11- 2021

SINo	Name	Bank Name & Branch	Remuneration	Individual A/C No.	IFSC Code
1	Dr. Dulen Saikia	Bank of Baroda, Sibsagar Branch	Rs.14,185.00	36910100000479	BARBOSIBSAG
2	Dr. Dulen Saikia	Bank of Baroda, Sibsagar Branch	Rs.900.00	36910100000479	BARBOSIBSAG
3	Dr. Gayatri Chutia	PNB, Cheuniali Branch	Rs.4,050.00	0738010104709	PUNB00783820
4	Maa Digital	Canara Bank, Sibsagar Branch	Rs.15,500.00	1155261000849	CNRB0001155
	Total		Rs.34,635.00		

Rupees (Thirty Four thousand Six hundred & Thirty Five)only.

Date: 23-11-2021

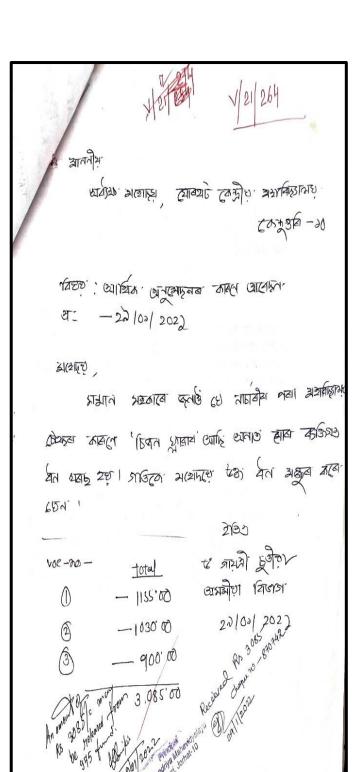
Chq. No. Vide Ch. No. 982327

(Dr. Dulen Saikia)

Principal & Secretary Jorhat Kendriya Mahavidyalaya Kenduguri, Jorhat - 10

Principal Iorhat Kendriya Mahavidyalaya Kenduguri, Jorhat-10





To Principal.

Johnt Kendriya Hahavidyalaya.

Nate - 23/8/21

Respected Sis,

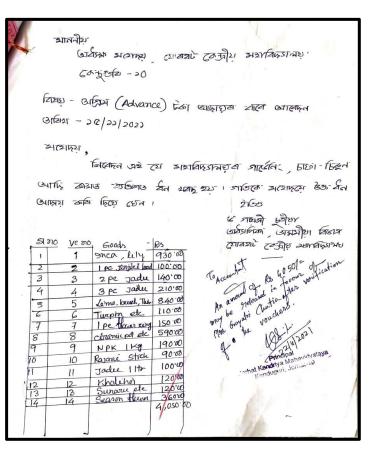
Our JCB has been in work for

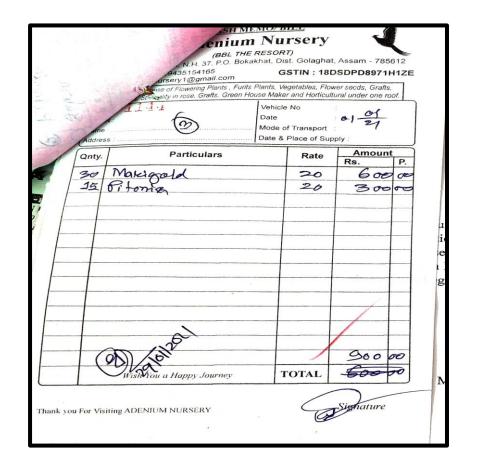
two hours (from 10AH to 12 AH) today, dated

two hours (from 10AH to 12 AH) today, dated

23 rd Aug. 2021. Therefore, J request you to

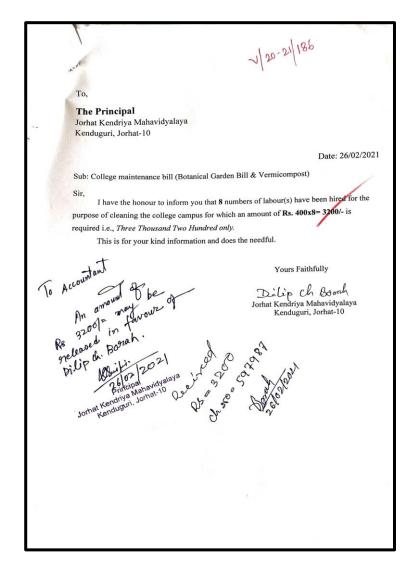
release an amount of 2000/(two thousand only)

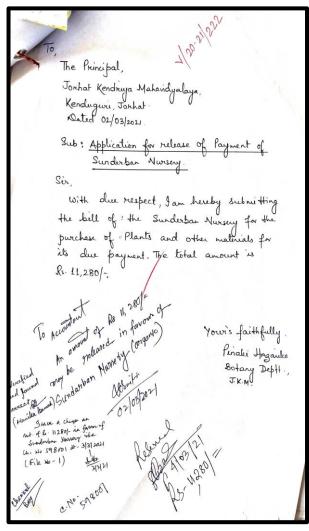


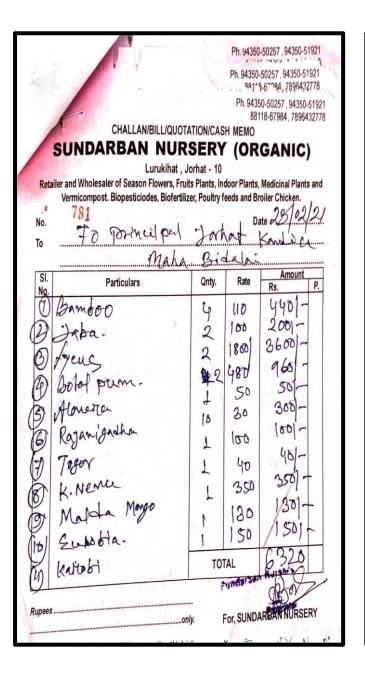


SAMPLE COPY OF VOUCHERS FOR BOTANICAL GARDEN

A Botanical Garden was established in the college campus in the year 2021, which was inaugurated on the occasion of National Science Day,2021. Few vouchers of the expenditure for its establishment are attached herewith-







Ph. 94350-50257, 94350-51921 פרדרכי וחסך שקחדם סוורים Ph. 94350-50257, 94350-51921 88118-67984, 7896432778 CHALLAN/BILL/QUOTATION/CASH MEMO NDARBAN NURSERY (ORGANIC) Lurukihat , Jorhat - 10 netailer and Wholesaler of Season Flowers, Fruits Plants, Indoor Plants, Medicinal Plants and Vermicompost. Biopesticiodes, Biofertilizer, Poultry feeds and Broiler Chicken. No. 782 to portneipal Tohar Kadin Mahab **Particulars** Amount Qnty. No. Rs. 1001 100 L 1201 120 1201 120 200 100 86/ 801 150 2250 45 50 450 15 20 100 60 For, SUNDARBAN NURSERY

	SARBAN N	URSERY		GANIC)
		hat Jorhat - 10		
Vermi	compost. Biopesticiodes, Bio	ofertilizer, Poultry fe	eds and B	roller Chicken.
).	33			ate 2.2702 12.1.
	To poince bal	Man >=	Maho	Poidani
I. 0.	Particulars	Qnty.	Rate	Rs. P.
1. 1	12	301-	45/2	13501
1900	0.		50	501-
An	nce	,	30	301-
Sey	ali		0	L
2			404	14301
CA	1-100-18t	and the second		63201
	782			35301-
N S				11 000010
				11/20012
		тот		Do Of mance
	View of the second	101	AL	30

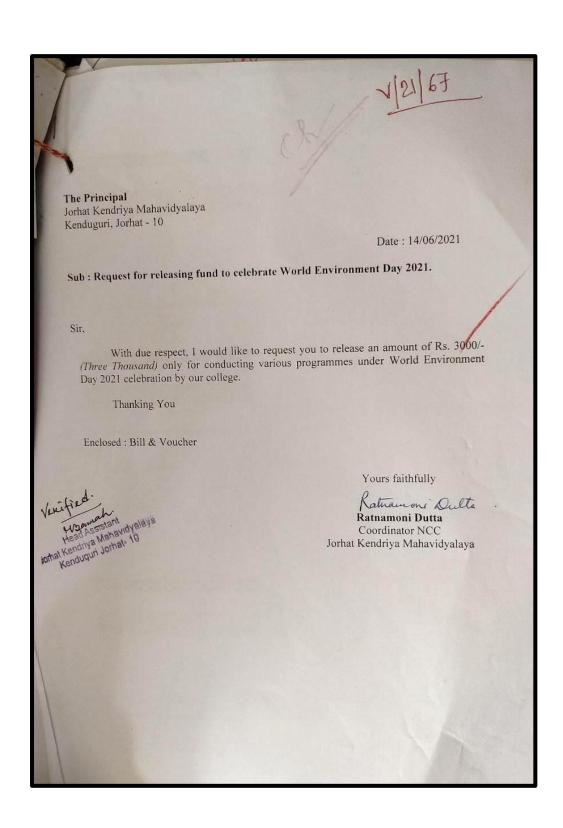
		A 20-2	1/11	7
	,			100
	,			
/	of Pincipal	Mahawidyalaya		
	Toohat Kendoiya			
7 su	Bill.			
			11-2/2021	I have
Sir	As per your order No. JKM/N	en Building 314ated	26/02/2021	
	As per your order No. JKM/N ody supplied all the metrials at your	location as per your o	rder your order no.	
alro	edy supplied all the methods as y			T. Total
	So I have sanding the bill to the	ese meterials which i	is atteched with this lette	er I. Total
	ount Rs. 4900' 10 and			
ame	ount Rs			
(i)	INo. 2.37	**		
	nk detail:			
A.C.	NO-36976507402 S.B.I, Borpool.			
				_
Ŧ,	F.C - 0007575		Thank you	
			2000 C.	
			S.R. Hardware	
2000 88			Jorhat - 10 S.R. HARDWARE	
3/1		/	· A	
- 35 /3V	A		Proprietor	\"/
2/-	Entered Into	0		100
	Entered Into Stock Book Page No. 78 JKM, Journal 10 S	Smah		27
	especial and.	Soral		90
	· and			470 /
	- Gred x		20 15	
V	concert a mat		202)	
Saure	de las bar		X	
	Hume	C	1600	-
		~ × ,	<i>,</i> (
		(Moss	Proprietor	

CONSTRUCTION OF BOTANICAL GARDEN AND VERMICOMPOST PRODUCTION
UNIT INAUGURATED ON THE SAME DA

VOUCHER SAMPLE COPY OF WORLD ENVIRONMENT <u>DAY</u>,2018

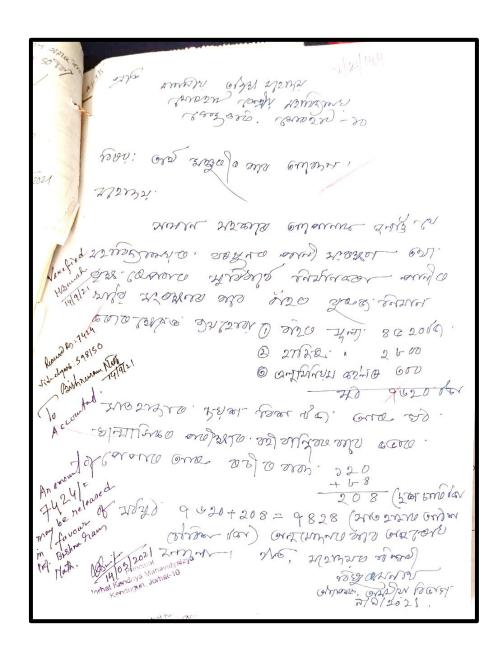
ouse of Quality P	NURSERY RUKIHAT, JORHAT Planting Materials) 134909459 (0) 156.118
Name	Rate (Rs.) Qnty. Total Rs.
Stirning- The Grand Grand Grand Grand Grand Print Stand Print Stand Print Rending Rupees	220 18 3960.0 401 5 200-1 5070 = 120-0 807-2 50-0 807-2 160-0 807-160-0
MAN BOLLAN	507000
Received by Fo	or, Sundarban Nursery

VOUCHER SAMPLE COPY OF WORLD ENVIRONMENT <u>DAY</u>,2021



The Principal Jorhat Kendriya Mahavidyalaya Kenduguri, Jorhat - 10 Date: 14/06/2021 Sub: Request for releasing fund to celebrate World Environment Day 2021. Sir, With due respect, I would like to request you to release an amount of Rs. 3000/- (Three Thousand) only for conducting various programmes under World Environment Day 2021 celebration by our college. Thanking You Enclosed: Bill & Voucher Yours faithfully Ratnamoni Dulta Coordinator NCC Jorhat Kendriya Mahavidyalaya

RAIN WATER AND GROUND WATER HARVESTING STRUCTURES IN THE COLLEGE



्रका. १५४३.४३ क्यामध्य का Barel Gross referred sucress. 55006/2/b second. ales sella ses o muso, a person siste god yezzer sease seen. our. ALOQUE CONCESSO : SUSTANO 1800 + 2000 01. A. 120 120 100 asse 2713-6. 2000+32,00 (ashot 6-2012 (ucreps 20) 20,000 2 000 (32 2000 augus (pr) ours save the though I wille plus see प्या हिला GNS ही क्रामित ! 21 Amonta Scotta o, Jayanta Handique. 21 20212 Landoan

कार्य कार्यकात कार्य.

सर्थ की अभव कराद एति है किया करा किया

8020 char (2000 2000 00 16 24 00 1000)

orde 2/2 olow 212/0 olow 500/ 500/ 100

~ 82M3 6 RS

8/2/23

I MINOR SIEN

(25,201. QQL) 25 2029. 8050/=

(क्या म्यात स्था क्या कार हिल

20 1-1609 ons

or restresser referred years or

explosed soll some walls and yell

SAMPLE COPY OF VOUCHER FOR VERMICOMPOST PRODUCTION UNIT

1/22/35 ine was Classes in the The prizcipal. Josehat Kesdreige mahanidyalare Raduguri, Joshat-10. Daled - 21 - 08 - 2022 Sel: - Application for release ford, Respected, Sir. Domesware Bornh, co-ordinator of verenieompost- production unit, here by going to request you to release the sum of Rs. 50001= (Time Momand only, for production of 4th unit. This is one kizel request- to Hearing you. tor action

morphanaire de 2022 for mineter ource faithfully

morphanaire de 22 of 10 2022 for mineter ource (Source Source Bossel

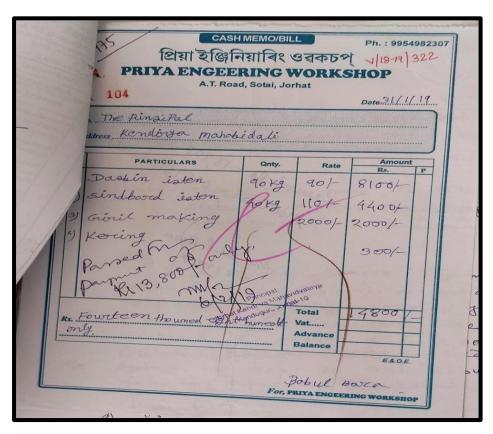
gui jonne de 22 of 10 2022 for mineter ource (Source Source Bossel

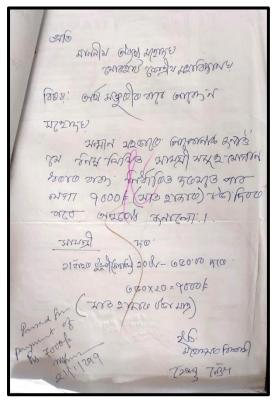
ca. m. 5000 for mandana)

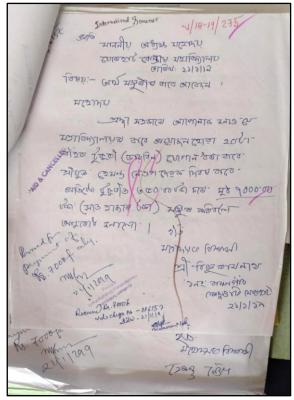
Ca. m. 5000 for mandana)

SOLID WASTE MANAGEMENT

VOUCHER SAMPLE OF THE BAMBOO DUSTBIN AND STAND







c) A COMPARATIVE VIEW OF THE AREAS IN COLLEGE CAMPUS BEFORE AND AFTER THE GREEN INITIATIVES

Through pictures, a comparative view of the college campus before and after initiation of green practices is shown.

GARDEN AREA
VIEW BEFORE (IN FRONT OF ARTS BUILDING)



AFTER VIEW IN FRONT OF ARTS BUILDING





THE AREA BEFORE IN FRONT OF ADMINISTRATIVE BUILDING



TRANSFORMATION IN DUE COURSE WITH THE ROOF TOP GARDEN





GARDEN AREA IN FRONT OF THE ADMINISTRATIVE BUILDING





BOTANICAL GARDEN

Before view



AFTER VIEW OF BOTANICAL GARDEN









RAIN WATER HARVESTING

a) THE AREA BEFORE THE DEVELOPMENT OF ARTIFICIAL POND FOR RAINWATER CATCHMENT





THE AREA AFTER THE CONSTRUCTION OF POND AND PLANTATION





THE AREA BEFORE THE CONSTRUCTION OF RAIN WATER HARVESTING STRUCTURE IN ARTS BUILDING



AFTER



THE AREA BY THE SIDE OF AUDITORIUM WAS A BARREN AREA BUT NOW IT HAS BEEN DEVELOPED BY ESTABLISHING A RAIN WATER HARVESTING STRUCTURE WITH THE POND AS CATCHMENT AREA AND PLANTATION IS DONE





VERMICOMPOST PRODUCTION UNIT

BEFORE VIEW OF THE SCIENCE BUILDING WITHOUT THE VERMICOMPOST UNIT



AFTER ESTABLISHMENT OF THE VERMICOMPOST PRODUCTION





CANTEEN AREA BEFORE TEA PLANTATION



AFTER VIEW





A SMALL EXPERIMENTAL AREA OF TEA PLANTATION WAS SET UP IN FRONT OF THE CANTEEN AREA

STUDENTS DOING PRACTICALS IN THE EXPERIMENTAL AREA

d) PHOTOGRAPHS OF PLANTATION PROGRAMMES

The pictures of few plantation programmes initiated by the college-

CHIEF MINISTER'S INSTITUTIONAL PLANTATION PROGRAMME





INAUGURATION OF DUBORI GREEN HOUSE NUSERY AND KNOWLEDGE HUB ON 28TH OF FE

PRODUCED IN THE NURSERY





discovered a phenomenon known as Raman Effect and for his remarkable discovery in 1930 he got the Nobel Prize and became the first Indian to win a Nobel Prize in the field of Science. To mark this discovery, National Science Day is celebrated in India since 1987 on 28th February every year. Events on this day remind the importance of science inspiring people of all ages to work in the field of SCIENCE. This day attracts many young minds and motivates them to take up science as their career. The celebrations of this day include showcasing the country's competence in the field of science. National Science Day is also known as Rashtriya Vigyan Diwas and is observed to mark the discovery of Professor Raman's work on the scattering of light by liquids.

Duemo of passing electric current through transparent glass & Plastic.

Start-up Release of JKM on the Occasion of National Science Day 2022

- > "Dubori" Green House Knowledge Hub Nursery.
- > "JKM Solar Carousel" designed by IIC-JKM
- > LED repairing Centre
- ➤ "Etikoli"-Organic Green Tea, JKM start-up product
- ▶ Innovative Software product for HEI
- > "Krishi Mitra" Vermi Compost, JKM start up
- Consultancy Services for green audit & energy audit.

OPEN QUIZ COMPETITION AMONG STUDENTS

All are cordially invited to Science Day,2022

PLANTATION ON WORLD ENVIRONMENT DAY,2021

-



World Environmental Day

5th June 2021, Jorhat Kendriya Mahavidyalaya, Kenduguri Jorhat-10









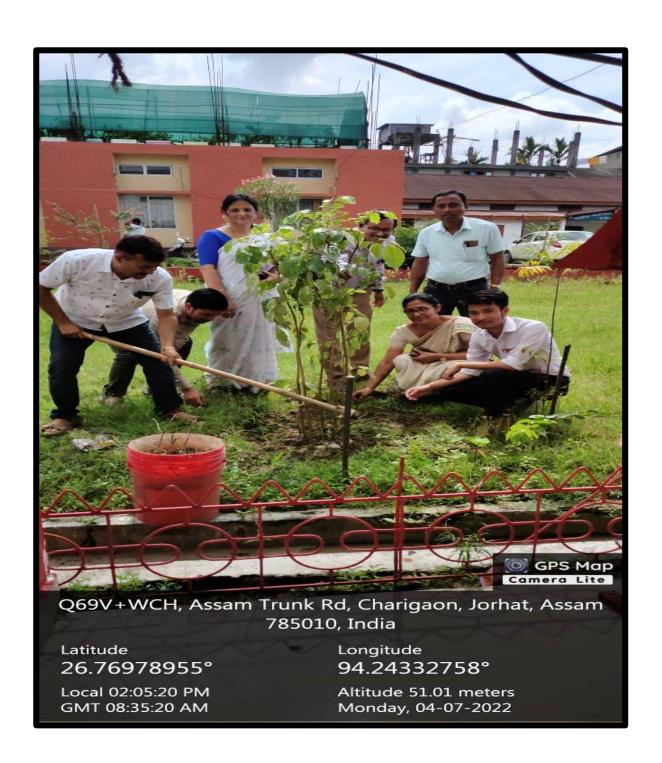
PLANTATION DRIVE ON WORLD ENVIRONMENT DAY ,2022

PLANTATION IN COLLEGE FIELD AREA





PLANTATION DRIVE IN COLLEGE CAMPUS BY THE FACULTY MEMBERS



e)SAMPLE COPY OF CERTIFICATES RECEIVED BY THE STUDENTS FROM THE SKILL COURSES

The college offers 8 No. of Add on Courses. To give an information and Skill Knowledge on Green Practices, Vermicompost Production Training Course, Solid Waste Management, and LED Light Repairing Technician Course is introduced in the college. Many students have been benefitted by the course and received the certificates from the first batch of this course.

SAMPLE COPY OF THE CERTIFICATE ISSUED FOR VERMICOMPOST PRODUCTION TRAINING COURSE-



SAMPLE COPY OF THE CERTIFICATE ISSUED FOR THE SOLID MANAGEMENT COURSE



SAMPLE COPY OF THE CERTIFICATES ISSUED FOR LED BULB REPAIRING TECHNICIAN COURSE



f)PEDESTRIAN FRIENDLY PATHWAYS OF THE COLLEGE CAMPUS

Many pedestrian friendly pathways are constructed in the college campus for easy passage to different areas without any obstructions.

WAY TO HOSTEL AND SCIENCE BUILDING

WAY TO ADMINISTRATIVE BUILDING





WAY TO THE AUDITORIOUM

