

P. N. DAS COLLEGE

Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1326, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

NAAC ACCREDITED - 2016

Copies of MoUs/ collaboration/ related documents

Principal P.N. Das College
P.N. Das College
Palta, Bengal Bnamel, M. 24 Pgs



Kartik Chandra Dalal (Advocate)

NOTARY

GOVT. OF WEST BENGAL Registration No. 21/2002 Bongaon, North 24 Parganas.

Residential Address:

Vill. + P.O. - Ganrapota, P.S. - Bongaon Dist. - North 24 Parganas, West Bengal Pin - 743251

NOTARY CERTIFICATE

TO ALL TO WHOM these present shall come I Kartik Chandra Dalal duly appointed by the Government of West Bengal as a Notary pursuant to the provision of the Notaries Act. 1952 (53 of 1952) and the Notaries Rules, 1956 and practising within North 24 Parganas, Bongaon Sub-Division do hereby certify that Paper Writings collectively marked "A" annexed hereto, hereinafter called the Paper Writing "A" are presented before me by the Executant/s.

First Porty:> Principal Dr. B. R. Ambedvar Satabarshiki Mahavidyalaya.

> of Vill - Heleneha, Po-Heleneha Colony, P.s. Brighth, Dit - 11, 24 Pgs.

An Execution of Deed of Agricoment."



hereinafter referred as the 'executant's' on this the \(\cdot\)+\(\cdot\)
day of \(\cdot\)-\(\cdot\)-\(\cdot\)-\(\cdot\)-\(\cdot\)
The "Executant's" having admitted the execution of the Paper Writing
"A" and being satisfied to the identity of the executant's I have attested the execution.

IN FAITH AND TESTIMONY WHEREOF I the said NOTARY have hereunto subscribed my name and affixed my Seal of Office this day of 1\1 th February 2020

Kartik Chandra Dalal (Advocate)

GOVT. OF WEST BENGAL



विश पश्चिम बंगाल WEST BENGAL

44AB 115591



DEED OF AGREEMENT

THIS DEED OF AGREEMENT is made on this 11th day of February'

2020

BETWEEN

DR. B. R. AMBEDKAR SATABARSHIKI MAHAVIDYALAYA,
HELENCHA – Represented by it's Principal having it's office at
Helencha, P.O. – Helencha Colony, P.S.- Bagdah, Dist. – North 24
Parganas, State – West Bengal, PIN - 743270 hereinafter referred to
and called as the FIRST PARTY (which terms or expressions shall
unless excluded by or repugnant to the context be deemed to mean
and to include it's heirs, executors, administrators, legal

Kartik Chandra DefaRT.

Government of West Bengal Bongson Sub-Division North 24 Parganas Regd. No-21/2002

1 FEB 2020

Page 1 of 3



P. N. DAS COLLEGE - Represented by it's Principal having it's office at Santinagar, Palta, P.O. - Bengal Enamel, P.S.- Titagarh, Dist. - North 24 Parganas, State - West Bengal, PIN - 743122, hereinafter referred to and called as the SECOND PARTY (which terms or expressions shall unless excluded by or repugnant to the context be deemed to mean and to include it's heirs, executors, administrators, legal representatives, successors in business and assigns) OF THE SECOND PART.

WHEREBY it has been agreed and declared by and between the parties hereto as follows:

11 FEB 2024

THAT the parties to this deed will exchange members of their faculties for delivering lecture primarily through the use of virtual platform to serve the bilateral needs of the institutions that is the parties to this agreement for a period of 10 years with effect from 01/03/2020 failing which either of the parties may take the legal action against the other as per law in force.

THAT save and except what are hereinbefore provided, the rights and liabilities of the parties shall be governed by the law in force as between the parties hereto.

IN WITNESS WHEREOF the parties hereto have hereunto set and subscribed their respective hands and seal the day, month and year first above written.

SIGNED SEALED AND DELIVERED

IN PRESENCE OF:-

handra Dalal onegon Sub-Division North 24 Parganas Regd. No-21/2002



WITNESS:-

SIGNATURE OF THE PARTIES:

1. Roopleera Bruyer Vice Buncifal Don B. R. A.S Marbuidyalaya Helencha colony. Nautu 2d Pgs.

2. Saryil Kuman Ahan Arvoirate Brocessor Sartinagan Po. Bergal Framel

Drafted and Prepared By

Kailik Julia

(KATHIK DUTTA)

Advocate

Principal. DR. CHITTARANIAN DAS Dr. S.R.A.S. Mahavidyalaya Belencha, North 24 Parponen.

Principal

P.N. Das College Santin pir. Palta 24 Pgns(N) = N - 743122

1 1 FEB 2024

Typed By

(Indranil Sarkar)

Saktigarh, Bongaon, Norht 24 Parganas



পশ্চিমবঙ্গ पश्चिम बंगाल WEST BENGAL

Z 222904

MEMORANDUM OF UNDERSTANDING

BETWEEN

GOBARDANGA HINDU COLLEGE AND P.N.DAS COLLEGE

Gobardanga Hindu College and P.N.Das College henceforth come to mutual agreement to exchange members of their faculties for delivering lectures primarily through the use of virtual platform for a period of five academic sessions commencing from the date of signing the agreement in Undergraduate as well as Postgraduate disciplines to serve the bilateral needs of the institutions as and when deemed necessary.

Signature:

An

Dr. Hare Krishna Mandal
Principal
Gobardanga Hindu College
Gobardanga, North 24 Parganas
Date: 24-10 - 2019

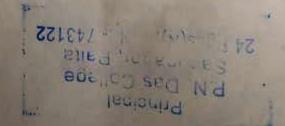
Principal
Gobardanga Hindu College
North 24 Parganas

Signature: Charmila De

Dr.Sharmila De
Principal
P.N.Das College

Palta, North 24 Parganas
Date: 24-10-2019

P.N. Das College Santinat r. Palta 24 Pgns(N), PIN:- 743







A comment

P. N. DAS COLLEGE

Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)
Phone: (933) 2592 1327, Fax: (933) 2592 1327, e-mail: pndc.principal11@gmail.com
Website: www.pndascollege.in

Ref. No.

Date. 05.01.2021

MEMORANDUM OF UNDERSTANDING

Between

P.N.Das College, Santinagar, Palta, P.O-Bengal Enamel, North 24 Parganas-743122

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Bijoy Krishna Girls' College, Howrah, 5/3, Mahatma Gandhi Road, Howrah-711101

P.N.Das College, Santinagar, Palta, P.O-Bengal Enamel, North 24 Parganas-743122 and Bijoy Krishna Girls' College, Howrah, 5/3, Mahatma Gandhi Road, Howrah-711101 hereby agree to become partner institutions for a period of 3 years to promote academic, professional and social development.

Objective of the MOU

- 1) To promote and enhance academic interest between two institutions
- 2) To promote collaborative Research

Areas of Collaboration:

- 1) Organizing Quality Enhancement Programmes
- 2) Delivering lectures primarily through virtual platform for fulfilling bilateral needs of both the institutions
- Organizing programmes to promote skill development of students and staff members
- 4) OrganizingSeminar/ Workshop for professional and academic development
- To promote Collaborative Research between the two institutions by providing Seed money for Research.

The institutions reserve the right to review the development and include more programmes for mutual benefit.

Principal
P.N. Das College
Palts, Bengal Ensmel, N. 24 Pgs.
Principal,

P.N.Das College,

Santinagar, Palta, P.O-Bengal Enamel

North 24 Parganas-743122

Principal,

Bijoy Krishna Girls' College

5/3, Mahatma Gandhi Road

Howrah-711101

RUMA BHATTACHARYYA

Prince and Secretary Bijoy Kanton G

5/3, Mahatma Gandhi kow ah-1



शिक्तमकर्भ पश्चिम बंगाल WEST BENGAL

68AB 623981

SERVICE AGREEMENT FOR E-WASTE MANAGEMENT

The Agreement is entered into at Kolkata on this 30th day of August, 2022.

By and Between

HULLADEK RECYCLING PRIVATE LIMITED, a company incorporated under the Companies Act 2013 having its registered office at 4, D.L. Khan Road, Flat No. B-401, 4th Floor, Kolkata - 700025, West Bengal, India hereinafter referred to as "First Party" which expression shall unless contrary to and or repugnant to the context mean and include its successors representative and permitted assigns through Mr. Nandan Mall to enter into and sign this Agreement for and on behalf of the First Party.

AND

P. N. DAS COLLEGE an Educational Institution functioning on the State of West Bengal under the existing laws of India and having its registered office at Santi Nagar, Palta, Kolkata – 743122, Dist. North – 24 Pgs., West Bengal, India hereinafter referred to as "Second Party" which expression shall unless contrary to and or repugnant to the context mean and include its successors representative and permitted assigns through Prof. Dr. Sharmila De (Principal) to enter into and sign this Agreement for and on behalf of the Second Party.

WHEREAS:

- A.) The First Party is a registered Producer Responsibility Organization (PRO) vide the Registration No. B-29016(12)/ (PRO)/18/WM-III Division dated 12.11.2018 valid up to 12.11.2023 and shall be renewed before the end of the term and the new renewal copy shall be shared with the Second Party. The First Party is authorized to undertake activities prescribed by Producer Responsibility Organizations by the Central Pollution Control Board under Rule 1 (1) (xviii) of the E-Waste (Management) Amendment Rules, 2018.
- B.) The Second Party in compliance of E-Waste Management Rules 2018 desires to have services for management of their Electronic Waste and has appointed the first party to fulfil their e-waste disposal needs and related compliances.

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Pgs

Hulladek Recycling Pvt, Ltd

Now, This Agreement witnesses the following terms and conditions to be performed by both the parties to the Agreement.

- The First Party has agreed to pick up, transport, carry and recycle/dispose of the E-Waste from the Second Party as per the norms prescribed by the Government Authorities from time to time
- The First Party has agreed to make available Utilization Certificate confirming that E-Waste provided by the Second party to the First Party has been recycled/ disposed of as per the norms prescribed by the Government Authorities within Thirty (30) days of the pick up the E-Waste
 - The second party will sign required documents to acknowledge that E-Waste has been handed over to the First Party.
- This agreement will be in force for a period of <u>Three (03)</u> years (30.08.2022 - 29.08.2025) from the date of execution of this Agreement and can be renewed at the end of every period by mutual consent.
- 4. The First Party assures the Second Party that, the First Party being a registered Producer Responsibility Organization (PRO) bearing the Registration No. B-29016[12]/ (PRO)/18/WM-III Division dated 12.11.2018 which is valid up to 12.11.2023 shall renew the registration before the end of the term and the new renewal copy shall be shared with the Second Party. In case of failure to renew the same, will be a liable cause for Termination of the Agreement by the Second Party post which the balance advance amount for the year of 2024-25 shall be refunded by the First Party to the Second Party.
- The second party is expected to generate minimum 300 kgs of E-Waste annually during each contractual term.
- The Second Party will accumulate all E-Waste and inform to the First party once reasonable volume <u>The pickups confirmed by the Second Party will be carried out on a priority basis</u> within Five (5) days from the date of request.
- The Second party has agreed to handover the E-Waste items, the details of which are mentioned at ANNEXURE - 1 below by the first party and the same shall be collected on <u>"as is where is basis"</u>.
 - The First Party will dispose off such equipment and specifically agreed that they will charge the

second party towards the disposal of E-Waste as shown in ANNEXURE 2 as because the tems

are "Negative Items" or hazardous in nature.

- 8. a) The First party shall pay Second Party in case of the items in ANNEXURE 1
 - (3) working days of actual pick up after receiving and clearance of all aligned necessary documents. Such as Tax Invoices, and Signed/Sealed Logistics Sheet and E-waste manifest documents.
 - ii) The Second Party must ensure that Payment for GST collected from First Party has been paid and reported to the government so that the First Party can claim the ITC as per the applicable regulations of GST law.

Hulladek Recycling Pvt. Ltd.

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Pos.

b) The Second party shall pay First Party in case of the items in ANNEXURE 2

Any monies payable by the Second Party shall be settled within Three (3) working days before or after the actual pickup of the E-waste items as per case to case basis. The Second Party must ensure Payment to the first party after receiving Proforma Invoice. The First Party shall be liable to send The GST acknowledgement receipt as documentary evidence to The Second Party. On completion of the payment by the Second Party the First Party Shall provide the Tax Invoice

- The second party's responsibility will cease once electronic waste has been handed over to the First Party. Thereafter, no liability would accrue to the Second party on account of ewaste.
- 10. The renewal of the contract shall be chargeable at the end of the tenure/period and the documentation formalities shall be done by the First Party within 30-45 days prior to the date of agreement termination.
- 11. Records & data of the e-waste material procured will be maintained and transparently shared by the first party.

12 Deliverables:

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C)

d)

- The First Party shall provide compliance documents and assistance such as
- 8) 'Form 2', 'Form 3' replies for Query Letters/ Show cause Letters/ Notices from PCB or ULB any other document required as per government norms and shall file annual return for the respective year to the state pollution control board.
 - The First Party shall also assist the Second Party in whenever any audit is carried out by any government agencies regarding E-waste Management and Handling. The First Party shall be a representative of the Second Party. The First Party shall prepare any audit reports if required to comply with the process.
 - In any event of an audit conducted by the PCB The First Party shall provide assistance to the Second Party by sending a representative. The Second Party Shall Pay the First Party only for Conveyance and Meal expenses, on the actual expense incurred by the representative of The First Party.
 - The Second Party has agreed to pay a chargeable amount for the abovementioned services for compliance. The amount shall be of ₹ 3,500 /- + 18% GST (computed per year & per location). Total ₹ 10,500 /- + 18% GST for (3) Three Years to be paid one time in advance for per location.
- ii. The First Party shall provide the following deliverables as part of the agreement
- The First Party shall conduct Awareness Session(s), Seminars, Material Training(s) & a) Handling and also prepare an Annual Report which is to be submitted to the Pollution Control Board. As specified in Clause no. 17.
- b) The First Party shall supply and install an "E-waste - Collection Bin" of Size - "1 meter (L) x 0.9-meter (D) x 0.8 meter (W)" at Santi Nagar, Palta, Kolkata - 743122, Dist. North -24 Pgs. West Bengal, India.
- c) The Second Party shall pay ₹ 2,500 i- + 18%GST (computed per year and per location) to the First Party as fee for Services including Rent for the Three (3) years of 'E-waste Bin', Fees for the Awareness Session(s) & Training(s) and Awareness Report Total of ₹ 7,500 /- + 18% GST for Three (3) years to be paid one time in advance for per location.
- Total Payable for the above-mentioned services 12 part 1| & 2) shall be of ₹ 18,000.00 /-+18% GST for Three (3) years to be paid one time in advance for the location.
 - The Second Party has agreed that the general waste such as municipal solid Waste and any liquid waste will not be included in the E-Waste.

P.N. Das College armile A

Palta, Bengal Enamel, N. 24 Pgs

Hulladek Recycling P. 13. awareness levels of the consumers of electronic products who ultimately become the generalors of e-waste in a community.

a) The First Party then shall prepare and share with the Second Party an Awareness Report to be submitted to the West Bengal Pollution Control Board (WBPCB)

15. <u>TERMINATION</u>: Either party can terminate this Agreement by giving 45 days written notice in advance to the other party citing reasonable grounds for such action. However, the other party is not entitled to claim any compensation for any premature termination if it is not under reasonable sufficient grounds.

a) The Second Party is fully entitled to approach the First Party to rectify the same any of the events of default within Thirty (30) Working days from the date of receipt of notice for rectification. The Second Party can withdraw itself from the association. Both Parties then shall settle outstanding(s) balances upon refund of the balance of tenure remaining.

16. That any notice, request, consent, waiver or other communication required or permitted hereunder shall be effective only if it is in writing and shall be deemed received by the Party to which it is sent.

i. Upon delivery when delivered by hand.

 Three (3) days after being sent, if sent with all sending expenses propaid, by an express courier with a reliable system for tracking delivery

iii. When transmitted, if sent by confirmed facsimile, or

 Fourteen (14) days after the date sent, if sent by certified or registered mail, postage prepaid, return receipt requested, addressed as follows.

If to the FIRST PARTY:	If to the SECOND PARTY
Contact Person: Mr. Nandan Mall	Contact Person: Prof. Dr. Sharmila De
Designation: Chairman and Director	Designation: Principal
Address: 5, Deshpran Sasmal Rd, Tollygunge,	Address: Santi Nagar, Palta, Kolkata - 743122, Dist
Kolkata, West Bengal 700033	North - 24 Pgs., West Bengal, India
Phone No.: 98361 05003	Phone No.: 97483 29535
Email id.: nandan.mall@hulladek.re	Email id.: - pndc.principal11@gmail.com

17. DISPUTE RESOLUTION: That in case of any dispute or difference arising between the Parties hereto in any of the matters under this Agreement or interpretation or implementation of any of the terms and conditions herein, the same shall be resolved through arbitration under the Arbitration and Conciliation Act, 1995. Any such arbitration shall be conducted by a three-member arbitral tribunal with each of the parties appointing their respective arbitrators and the two arbitrators so appointed shall appoint the presiding arbitrator. The Arbitration shall be conducted in English. The parties shall pay the cost of arbitration as may be directed by the Arbitrators in their Award.

18. That all Disputes arising out of the Present Agreement shall be subject to Jurisdiction of courts at Kolkata.

Hulladek Recycling Pvt. Ltd.

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Pgs.

IN WITNESS WHEREOF, each of the parties hereto has executed this agreement in two sets each of which when taken together shall constitute one and the same instruments on the day and year first above written.

"First Party"

M/s. Hulladek Recycling Private Limited

Hulladek Recycling Pvt Ltd

Authorized Signatory (Mr. Nandan Mall) "Second Party"

P. N. DAS College

Principal

P.N. Das College

Authorized Signatory N. 24 Pgs (Prof. Dr. Sharmila De)

Witness: -

Witness: -

1) Sme has: sh chaltralorly Kolkata - 700025.

The FIRST PARTY shall pay to the SECOND PARTY for the following items listed below:

List of Positive E-waste items

Annexure 1

Particulars	Weight	Price Paid By Hulladek Recycling To P.N. Das College Kolkata
Item		(Inclusive of all applicable taxes
Electronic Items (Scrap/Non-Working)		
Mixed IT scrap lot	On Actuals	₹ 30.00 / kgs
Mixed Electricals	On Actuals	₹ 42.00 / kgs
UPS Battery	On Actuals	₹ 72.00 /kgs
Industrial Battery	On actuals	₹80.00 / kg
Copper Cables	On actuals	₹ 180 00 / kg
Aluminium Cables	On actuals	₹ 55 00 / kg
Air Conditioners	On actuals	₹50.00 / kg
Cables	On actuals	₹ 10.00 / kg
Motors (AC/DC)	On actuals	₹65.00 / kg
Small Miscellaneous Consumer Items	On actuals	₹ 12 00 /kg

Hulladek Recycling Pvt, Ltd.

Director

Control of the contro

P.N. Das College Palta, Bengal Enamel, N. 24 Pgs.

List of Negative E-waste items

Annexure 2

Lighting Equipment (Scrap/Non-Working)				
Particulars		Weight/piece	Number of Pieces/kg	Price Charged by Hulladek Recycling to P.N. Das College Kolkata
, Item	Description			(Inclusive of all applicable taxe
Tubelight	Big	0.030 kgs	34 units	Rs 40/kg
Tubelight	Small	0.020 kgs	50 units	Rs 40/kg
Pl bulb		0.025 kgs	40 units	Rs 40/kg
Lamps		0.050 kgs	20 units	Rs 40/kg
CFL bulb		0.023 kgs	- 44 units	Rs 40/kg
Incandescent bulb	AAA battery	0.011 kgs	91 units	Rs 40/kg
Pencil battery	AA battery	0.023 kgs	44 units	Rs 40/kg
Pencil battery	C battery	0.066 kgs	15 units	Rs 40/kg

"First Party"
M/s. Hulladek Recycling Private Limited

Hulladek Recycling Rvt. Ltd.

Authorized Signatory

(Mr. Nandan Mall)

"Second Party" P. N. DAS College

P.N. Das College
Authorized Signatory
(Prof. Dalis Assemble English, N. 24 Pgs.

Witness: -

Witness: -

1) Smehasish Charlesory Kolleda- 700025.



পশ্চিমকণ पश्चिम बंगाल WEST BENGAL

53AB 958432

THIS MEMORANDUM OF UNDERSTANDING is made on this 26th day of April, 2022, amongst DINABANDHU MAHAVIDYALAYA, of Bongaon, Dist. North 24 Parganas, PIN-743235 a UGC approved, 2nd cycle NAAC accredited college affiliated under the West Bengal State University (Government of West Bengal aided college) and GOBARDANGA HINDU COLLEGE, of P.O.-Khantura, Dist. North 24 Parganas a UGC approved 2nd cycle NAAC accredited college affiliated under the West Bengal State University (Government of West Bengal aided college) and P.N DAS COLLEGE, of P.O.-Santinagar, Palta, Kolkata-743112 a UGC approved 1st Cycle NAAC accredited college affiliated under the West Bengal State University (Covernment of West Bengal aided college) and SREE CHAITANYA MAHAVIDYALAYA, of, P.O.-Prafullanagar-Habra, Dist. NORTH 24 PARGANAS, UGC approved 2nd cycle NAAC accredited college affiliated under the West Bengal State University (Government of West Bengal aided college).

Dinabandhu Mahavidyalaya, Bongaon; Gobardanga Hindu College, Gobardanga; P. N. Das College, Palta and Sree Chaitanya Mahavidyalaya, Habra

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henceforth come to an agreement to promote academic and administrative enrichment through development of educational, cultural, research and administrative activities using online and offline modes.

All the four colleges mentioned ut supra have entered into this Memorandum of Understanding for the period of three years in first phase.

IN WITNESS WHERE OF both the parties have set and subscribed their respective hands and seals on the day, month and year first above written.

Witnesses

1. Ranasaha

Principals

I. Principal, Dinabandhu Mahavidyalaya

DINABANDHU MAHAVIDYALAYA Bongson, 24 Pgs(N)

2. Bixashch Montal

Principal, Gobardanga Hindu College

Principal Geberdangs Hindu College Horth 24 Pargence

3. Kanli Sendanje;

3. Principal, P.N Das College

Principal
P.N. Das College
Santineger, Palte
24 Page 66, Pirc-743122

4. Sanjib Tahmun.

4. Principal, Sree Chaltanya Mahavidyalaya

Principal
Sree Chaltanya Mahavidyalaya
Habra-Trafuilannger, 24 Pgs. (N)



MEMORANDUM OF UNDERSTANDING

THIS MEMORANDUM OF UNDERSTANDING (MoU) made this 13th day of August, Two Thousand and Nineteen.

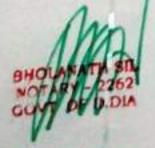
BETWEEN

P.N. DAS COLLEGE, Santinagar, Palta, P.O. Bengal Enamel, P.S. Mohanpur, Dist. North 24 Parganas, West Bengal, Pin 743122.

AND

SIR GURUDAS MAHAVIDYALAYA, 33/6/1, Biplabi Barin Ghosh Sarani, Muraripukur, Ultadanga, P.S. Maniktala, Kolkata 67.

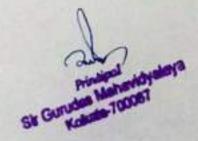
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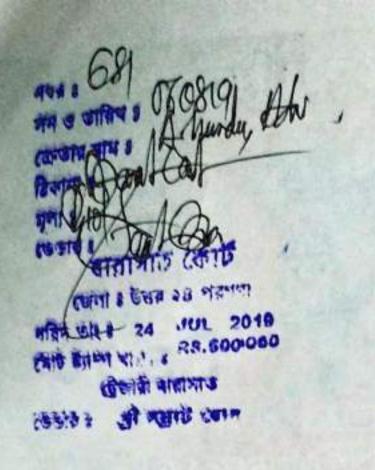


1 3 AUG 2019



Principal^{*} P.N. Das College Santinoga, F 24 Pans 01





MEMORANDUM OF UNDERSTANDING

THIS MEMORANDUM OF UNDERSTANDING (MoD) made this 13th day of August, Two Thousand and Marcheed.

SIR GURDINAS MADAVIDVALAYA SEG, BRIDE PE

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This Memorandum of Understanding (MoU) is hereby solemnized between P.N. Das College, Palta, represented by Principal Dr. Sharmila De, and Sir Gurudas Mahavidyalaya, Kolkata, represented by Principal, Dr. Manishankar Roy, on this day, the 13th day of August, 2019.

I Legal Framework of both the organizations:

P.N. Das College, a UGC approved NAAC accredited B Grade college affiliated to West Bengal State University, Government Aided College, Santinagar, Palta, P.O. Bengal Enamel P.S. Mohanpur, District North 24 Parganas, West Bengal, represented by Principal Dr. Sharmila De, bereafter referred to as First Party

And

Sir Gurudas Mahavidyalaya, a UGC approved NAAC accredited B Grade college affiliated to the University of Calcutta, 33/6/1, Biplabi Barin Ghosh Sarani, Muraripukur, Ultadanga, P.S. Maniktala, Kolkata 67, represented by Principal, Dr. Manishankar Roy, hereinafter referred to as Second Party

II Purpose of the Agreement

Both the parties are pleased to enter upon an agreement for fostering collaborative academic growth and development, for a period of 5 years with the following shared visions:

- 1. Quality Initiatives
- 2 Implementation of innovative ideas in Teaching Learning and e-Governance
- Teacher Exchange Programme
- Collaborative Research Work
- 5. Value based cultural and social initiatives

This linkage will respect Intellectual Property Rights and any intellectual matter developed by the collaborative efforts of two colleges shall be retained by them. No legal relationship between the two colleges is implied through this linkage, and any of the two colleges can choose to terminate the linkage with a prior written notice of six months.

Cont. Page-3

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1 3 AUG 2019

Principal P.N. Das College Santrager, Parts 24 Pgns (10, Parts) Principal
Sir Gurudes Mahavidyalaya
Kolkata-700067





respective hands and scals the day month and year first above written.

SIGNED AND DELIVERED on behalf of P.N. DAS COLLEGE, Santinagar, Palta, PO- Bengal Enamel, PS- Mohanpur, Dist- North 24 Parganas

Witness:

1. Bable Bismas

2. Prosemjit Pramunick

SIGNED AND DELIVERED on behalf of SIR GURUDAS MAHAVIDYALAYA 33/6/1, Biplabi Barin Ghosh Sarani, Muraripukur, Ultadanga, P.S. Maniktala, Kolkata 67

Witness

1 Bhingini Baku

2 Mausumi Balppadhyay

Dr. Sharmila De, (The Principal)

Principal
P.N. Das College
Santinagar, Palta
24 Pars (M) Pro-74114

Dr. Manishankar Roy, (The Principal)

Principal
Sir Gurudes Maharidyalaya
Kobata-700087

PREPARED By !-

Ashutosh Kundy

ASHUTOSH KUNDU Advocate Barasat Judges' Court W.B. 1262/2003 BEFORE WE ON IDENTIFICATION

OF INDIA

1 3 AUG 2019



পশ্চিমকণ पश्चिम बंगाल WEST BENGAL

64AB 866127

Membrandum of Understanding between New Alipore College, New Alipore,
Block 'L', Kolkata-700053 and P.N. Das College, Santinagar, Palta, North 24
Parganas, West Bengal

This Memorandum of Understanding (MoU) is hereby solemnized between New Alipore College, New Alipore, Block-'L' Kolkata-700053 represented by Principal Dr Jaydeep Sarangi and P.N. Das College, Santinagar, Palta, North 24 Parganas, West Bengal represented by Principal Dr. Sharmila De for fostering collaborative academic growth and development, as envisaged by UGC and NAAC for a period of 5 years w.e.f. 14/03/2022.

Marmila De

Dara :



Legal Framework of both the organizations

New Alipore College

UGC approved NAAC Accredited College affiliated to ...

hereafter referred to as First Party

P.N. Das College

UGC approved NAAC accredited B Grade College, affiliated to the West Bengal State University, hereafter referred to as Second Party

- II. Purpose of the Agreement
 - 1.Quality Initiatives
 - 2. Online sharing of innovative ideas in Teaching Learning and e-Governance
 - 3. ICT use for innovative Pedagogy
 - 4. Teacher Exchange Programme
 - 5. Staff Development Programme
 - 6. To work towards higher education for all.
- 7. Collaborative Research Work
- 8. Value based cultural and social initiatives for greater good of society

This linkage will respect Intellectual Property Rights and any intellectual matter developed by the collaborative efforts of two colleges shall be retained by them. Both the colleges shall respect and retain confidentially in each / any of the collaborative efforts, and all collaborative academic exercises shall be guided, directed and impelled by the greater academic interest of both the colleges, and not any other /commercial interest. No legal relationship between the two colleges is implied through this linkage, and any of the two colleges can choose to terminate the linkage with a prior written notice of six months.

This Academic Linkage shall uphold the ethos of holistic and integrated academic excellence and growth followed by all higher education institutions of the country, and shall not in any way impede or affect each of the participatory college's individually and distinctiveness, by any way whatsoever.

Dr. Jaydeep Sarangi

Principal New Minne Celles Sarangi

Kolkata:33 · Principal

New Alipore College

Dr. Sharmila De Principal, P.N. Das College

North 24 Parganas

P.N. Das College Santinagar, Palta

Santinagar, Palta 24 Pgns (N), Pint-743122

Witness

Kolkata-700053.

trisher & Jan

14.03.200



পশ্চিমঞ্চা पश्चिम बंगाल WEST BENGAL

25AB 626360

MEMORANDUM OF UNDERSTANDING
BY AND BETWEEN
BA BARRACKPUR PRAFULLA CHANDRA MAHAVIDYALAYA
POST+P.S.- NEW BARRACKPORE PIN 700131
NORTH 24 PARGANAS
AND

P. N. DAS COLLEGE SANTI NAGAR, PALTA, P.O. – BENGAL ENAMEL, PIN 743122 (W.B.) NORTH 24 PARGANAS

Principal Neba Barrackpur Prafulla Chandra Mahavidyalaya Principal P.N. Das College
P.N. Das College
Palta, Bengal Enamel, N. 24 Pgs.

I. Legal Frameworks of Both the Organizations

NABA BARRACKPUR PRAFULLA CHANDRA MAHAVIDYALAYA

UGC approved College, affiliated under West Bengal State University and Government of West Bengal aided College, Post+P.S.- New Barrackpore Pin — 700131, West Bengal, represented by its Principal Dr. Sunil Kumar Biswas, hereinafter referred to as the FIRST PARTY (which term or expression shall unless excluded by or repugnant to the context be deemed to mean and include its successor in office, representatives, administrators, and assigns) OF THE OTHER PART.

P. N. DAS COLLEGE

UGC approved NAAC accredited B Grade College, affiliated under West Bengal State University and Government of West Bengal aided College, SANTI NAGAR, PALTA, P.O. – BENGAL ENAMEL, PIN 743122 (W.B.) NORTH 24 PARGANAS represented by its Principal, Dr. Sharmila De, hereinafter referred to as the SECOND PARTY (which term or expression shall unless excluded by or repugnant to the context be deemed to mean and include its successor in office, representatives, administrators, and assigns) OF THE ONE PART

Both the institutions hereinafter referred to as Parties

II. Purpose of the Agreement

Both the Parties are pleased to enter upon an agreement to establish ties of academic and administrative cooperation in order to contribute to the achievement of their overall goals as institutions through following but not limited to:

- Joint teaching and research projects.
- 2. Collaboration in the area of academic publications, research activities, Field trips etc
- Visit, training and exchange of faculty, staff and students
- 4. Joint educational/vocational courses
- 5. Joint consultancy, Ph.D Supervision, scientific publications

6. Co-hosting and participation in conferences, seminars, symposiums and workshops.

- 7. Social and cultural programs
- 8. Any other activity that is mutually agreed upon and is beneficial to both





WASA BARRACKPUR PRAFULLA CHANDRA

MAHAVIEYALAYA New Barrackpur

III. Execution of the Agreement

The specific activities to be carried out under this agreement will be stated in corresponding specific sub-agreements. Such specific sub-agreements, once approved by both parties, will be attached as annexure to this agreement. The specific sub-agreements between both Parties will specify their objectives, conditions and ways of execution, financial support, period the sub-agreement will be in effect, and administrative responsibility within each institution

IV. Term and Expiration of the Agreement

It is understood that this agreement will come into effect after being signed by both Parties and will be established for a period of five years. After these five years it will be automatically extended for the same period, unless one of the Parties expresses an intention (by written notification) to cancel the agreement at least 90 days before the expiry date. The amendment, termination and expiration of this MOU will not affect the terms of activities ongoing at the time of notification of amendment, termination or expiration, unless otherwise agreed upon between the Parties.

Any additions, changes, or deletions to this document must be approved by the representatives of both Parties. All notices shall be in writing and shall be directed to these representatives.

V. NON-EXCLUSIVITY:

This Agreement is a non-exclusive agreement, and both parties remain free to enter into similar agreements with third parties.

VI. SPECIAL PROVISIONS

P.N. Das College Naba Barrackpur Prafulla Palta, Bengal Enamel, N 24 p. Chandra Mahavidyalaya VI. SPECIAL PROVISIONS

Palia Bengal Enamel, N. 24 Pgs
Chandra Mahavidyalaya

I. Each party will take approval from the other party in writing prior to using the latter's name and logo for the activities hereunder on a case-by-case basis.

- 2. All parties hereto shall do their utmost to ensure the smooth and efficient implementation of the programs.
- 3. The parties will consult with each other for any subsequent associated agreement informally and attempt to resolve any dispute or misunderstanding that may arise in the administration of this MOU or any subsequent associated agreement informally.
- Neither party can misuse this MOU by involving the name of the other without the written consent from the other party.

VII. DISPUTES

If any dispute arises in respect of the MOU, in that case both the organization will discuss and settle the matter amicably.

IN WITNESS WHEREOF both the parties have set and subscribe their respective hands and seals on the day, month and year first above written

This Agreement shall enter into force upon signature of the following persons.



For Naba Barrackpur Prafulla Chandra Mahavidyalaya

Dr. Sunil Kumar Biswas, Principal

SIGNATURE OF THE FIRST PARTY

Principal Naba Barrackpur Prafulla Chandra Mahavidyalaya

For P. N. DAS COLLEGE

Dr. Sharmila De, Principal

SIGNATURE OF THE SECOND PARTY

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Pgs.

WITNESSES:

1)

Coordinator IQAC
Naba Barrackpur Prafulla Chand.
Mahavidyalaya

2)

Co-ordinator, IQAC P. N. Das College reita, 24 Pgs. (N), Pin-743122



MEMORANDUM OF UNDERSTANDING

THIS · MEMORANDUM OF UNDERSTANDING made this 1st day of June, Two Thousand and Twenty Two.

BETWEEN

P.N. DAS COLLEGE (PNDC), SANTINAGAR, PALTA, P.S. - MOHANPUR, DIST. - NORTH 24PARGANAS, WEST BENGAL, PIN 743122

HIBANYAGARBHAYA VEDIC & YOGIC INSTITUTE (HVYI), JADAVPUR, KOLKATA 700032, WEST BENGAL

Principal P.N. Das College

24 Pons (N), Pin:-743177

Cont. page 2.

নশর: ৪৩6
সন ও তারিশ: 300522
ক্রেডার নাম:
ক্রিডার বিশ্বর প্রক্রিডার কর্মান প্রক্রিডার কর্মান প্রক্রিডার কর্মান কর্

MEN-DEANIST WITH CHARGE TANDERS TANDERS

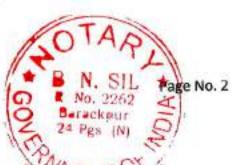
Two Thousand and Twenty Two.

BELWEEN

ART DEL CE LILLE DELLAND, SANTHARDAN, ENTEAU PLS - MODERNE, DUT - LOSSE - ANTARCANA - ANTA

PICKING ARBITRA SOIL E FOGIL INSTITUTE (HVVI) JADAVEUE HOLIGAN ZOOGEZ

CHARLES STORY





PURPOSE:

Each year an increasing number of people are leaning towards yoga and lifestyle change because of fitness of body-mind complex, stress and its stress related ailments; second for which yoga and its many facts including meditation are increasingly becoming popular and recognized as important healing modalities. However, these practices are not reaching the mass of India in a systematic way. To address this gap, HVYI and its associates (branches) are willing to take this responsibility to promote yoga awareness, courses, and Wellness programmes in our day-to-day life for all classes of people.

To provide yoga at every tourist trip and reach our community members through our associates, branches, and affiliates HVYI provides all the technical support needed to establish and run the centers in different areas of INDIA.

Signed between HIRANYAGARBHAYA VEDIC AND YOGIC INSTITUTE(HVYI) hearinafter referred to as "HVYI" and Head of the host organisation "P.N. DAS COLLEGE, PALTA," for offering HVYIacademic and all other yoga therapeutic rehabilitation programmes.

Terms and conditions are as follows:

The memorandum of understanding (MOU) represents non-legal/binding commitments between HVYI- and our associate partner P.N. DAS COLLEGE to agreed the following responsibilities:

Details of both the organisations, between whom the mou will be signed, and the responsible persons are given below:

MOU IS SIGNED BETWEEN

Name of organization	HIRANYAGARBHAYA VEDIC AND YOGIC INSTITUTE (HYVI)	P. N. DAS COLLEGE	
Address	2/94/21 BIJOYGARH, JADAVPUR, KOLKATA- 32	SREEPALLY, PALTA, P.O BENGAL ENAMEL, DIST - N- 24 PARGANAS, PIN- 743122	
Names of Signatories	SMT. RADHA ROY CHOWDHURY DIRECTOR, HYVI	DR SHARMILA DE PRINCIPAL, P.N. DAS COLLEGE	

BHOLANATH SIL NOTARY - 2262 GOVT OF INDIA

8 1 JUN 2022

Principal P.N. Das College Santinagar, Palta 24 Pors (M), Pin:-743122 Cont. page 3

3 National Champion, Yoga Dist. Yoga National University (Govt. Of I Kalyani University (Govt. Of I Yolinteer Ayush (Therapist





The host organization (P.N. Das College shall:

- Promote HVYI academic and other yoga programmes using various available resources locally and HVYI will utilize the same from the host organization.
- Give one or two rooms with a hall, measuring approximately 45 to 50 square meters for the office of coordinator and HVYI yoga activities.
- Install the sign board of HVYI centre as per the prototype sent by the HVYI
 prominently at a proper place in the Institution/ Organization.
- Make hall /room and other resources have level for holding counseling, practical andterm-end examination as per the HVYI norms.
- Extend learning facilities to the learner and yoga participants of HVYI for given programmes.
- Properly maintain cleanliness and hygiene of the entire campus, food, and accommodation.
- Take all necessary steps as are needed to support HVYI programmes, for all
 practical purposes, coordinator of the host institution will be accountable for
 managing the centre on behalf of HVYI or its own.
- HVYI shall recommend the name of the coordinator.
- Arrange schedule of academic, therapeutic and regular yoga practical interaction ofyoga teachers and counselors with the learners for both theory and practical.
- If the location is out of city, local transpiration from the railway station/airport/busstop has to be arranged during the visit of HVYI on its own.
- Receive funds as per the financial understanding with P.N. Das College an associate organization.
- Provide all the technical supports to run yoga academic courses and other yoga related programmes at the premises of the host organization or any said location by the deputing competent teachers and staffs.
- Provide salary of the teachers and its staff deputed by HVYI including their travelling expenses from their respective place and return journey.
- Provide instructional and audio-visual materials pertaining to the program(s) activated at the yoga activity centre along with yoga kits including course material forhandling support service for students.

Both the parties shall have the right to shift/terminate the programme or MOU if the both the parties find that support services from both sides are not being provided as perthe requirements of the programmes.

In such case of termination of the MOU both the parties will have to hand over all the assets and academic records to the respective parties whom it belongs to.

Both the designated persons will also have to settle all the financial accounts with both the parties.

BHOLANATH SIL NOTARY - 2252 GOVT OF INDIA

Principal P.N. Das College Sentineger, Palis 24 Pgrs (M), Pin:- 7431*2 Cornt. page 4

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Post Gradual
BIDISHA DEY
Post Corduct
Indian
Post Description
Po

0 1 JUN 2022





dispute arising out of this MOU is subject to the jurisdiction of the court in the Kolkata vision only.

All the accounts of the specific programme and activities at the centre will be open and transparent to both the parties.

All the collected amounts in the form of fees or donation for the specific programmes or yoga activities from yoga students or yoga participants will be shared equally by boththe parties.

in the case of conducting all the programmes at HVYI CAMPUS all responsibilities goes to HVYI, only, as per enrolment of students by PNDC 30% of their collected fees will be shared with PNDC.

Fees of the respective course and programmes has to be designed by both parties and it has to be signed by both the parties after the finalisation of those courses and programmes.

The yoga courses and different models of the sort of yoga programmes starting from minimum of one day to more than three months.

Expenditure related to the course material will be provided by HVYI.

Any unwanted happening or unlawful act at the centre will be solved by both the parties; sitting together.

As per the understanding, during the first year (2022-23) the college will provide a lump sum amount of Rupees Fourteen Thousand only (Rs 14,000/-) once and for all for the conduct of the Certificate Course on Yog Education, provided free of cost by the host institution to its students, subject to its successful completion.

This memorandum of understanding will be effective upon signature by the below or authorised officials for the tenure of THREE-YEAR years and shall be renewed as per demands of both parties.

Accepted and signed on behalf of the Host Organization by designated authority	Signed on behalf of HVYI
Name: Dr. Sharmila De	Name: Bidisha Dey
Designation: Principal	Designation: District Coordinator, North24- Parganas
signature with SEAL: Principal P.N. Das College Santinagar, Palla 24 Pgns (N), Pin:- 743177	Yoga National Champion, Yoga Post Graduate Kalyani University , Yoga Dist. Judge Volinteer Ayush (Govt. Of India)
Witness: Ajit Dan	Witness: Ante ta Baral
Place :	Place :

BHOLANATH SIL NOTARY - 2252 GOVT OF INDIA

P.N. Das College Santineger, Palta 24 Pgns (N), Picc 743172 Physical Therapist





ATTACHEDALONG WITH ALL AADHAAR, AND PAN CARD OF THE ORGANISATION DESIGNATED PEOPLE.

Particular	
Certification	
Course material	
Yoga uniform (Yoga mat, t-shirt, shatkarm material)	
examination fee	
tuition fee and visiting faculties	
other expenses	

BIDISHA DEY
Rational Champion, Yoga Post Graduat
Kalyani Uluversity , Yoga Dist. Judge
Voluneer Ayush (Govt. Of India)

PREPARED By :-

Ashubosh Kunda

ASHUTOSH KUNDU Advocate Barasat Judges' Court W.B. 1252/2003

ATTESTED EXECUTION
BEFORE NUMBER DENTIFICATION

NOTAFY 2262 GOVT OF INDIA

1 JUN 2022

1 JUN 2022

Principal
P.N. Das College
Santinagar, P. ...
M Pans (N), Pan- 743122



INDIA NON JUDICIAL

शिक्षवन्त्र, पश्चिम बंगाल WEST BENGAL



MEMORANDUM OF UNDERSTANDING

THIS MEMORANDUM OF UNDERSTANDING (MoU) made this 7th day of August, Two Thousand and Twenty One.

BETWEEN

P.N. DAS COLLEGE (PNDC), SANTINAGAR, PALTA, P.S. - MOHANPUR, DIST. - NORTH 24 PARGANAS, WEST BENGAL, PIN 743122

AND

WEST BENGAL NANBUDO ASSOCIATION Karate-Do School, Rahara, Saradapally, Near Jharna Marriage Hall, Kolkata -700118 Signed on this day the 7th day of August 2021.

Cont. Page 2

BHOLANATH SIL NOTARN 4 2262 GOVT OH IVORA

Principal P.N. Das College Santinagar, Palta 24 Pgrs (N), Pin: 743122 General Secretary
West Bengal Nanbudo Association

0 7 AUG 2021



MEMORANDUM OF UNDERS PINTING

THE S MEMORANDUM OF UNDERSTANDING (MOU) on a this 2th day of all the following two thousand and Twenty One.

DOMESTIC STREET

ENGLISHED FOR STREET FOR A WARTER OF THE PARTY MORANPUR, BITT. MORANPUR, BITT. MORANPUR, BITT.

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and the expected Association Personal Control of the State of the Stat

General Secretary Cost Sengal Manhedo Association





his Memorandum of Understanding is hereby solemnised on 7th day of August 2021 between P.N. Das College, Santinagar, Palta, represented by the Principal, Dr. Sharmila De and West Bengal Nanbudo Association represented by Shihan Anil Kumar Ram, General Secretary, West Bengal Nanbudo Association on a 36 hour certificate course on Self Defence (Karate) for the students of P.N. Das College

Purpose of the Course

With the changing society where, on the one hand, Empowerment of Women is taking a good shape, enrolment of Women in Educational Institutions and number of Women entering the workforce is remarkably high, and on the other hand, crime against women is also an issue that needs to be addressed, and Government of India is encouraging all institutions to ensure training on self defence of women.

Purpose of the Agreement

Signed between P.N. DAS COLLEGE, Santinagar PALTA, and West Bengal Nanbudo Association for offering a 36 hour Certificate Course on Self Defence to female students of the college

Terms and conditions are as follows:

- The memorandum of understanding (MOU) represents non-legal/binding commitments between P.N. DAS COLLEGE and West Bengal Nanbudo Association.
- Details of both the organisations and the responsible persons below between whom the MOU will be signed

MOU IS SIGNED BETWEEN

Name of organisation	P. N. DAS COLLEGE	
Address	SREEPALLY, PALTA, P.O BENGAL ENAMEL, DIST - N-24 PARGANAS, PIN- 743122	
Names of contact	DR SHARMILA DE PRINCIPAL, P.N. DAS COLLEGE	

BHOLANATH SIL NOTARY - 2262 GOVT OF INDIA

Principal P.N. Das College Santinagar, Palta 24 Pgns (N), Pin:- 743177 Cont. Page 3

West Bengal Nanbudo Association

7 AUG 2021





Name of organisation	West Bengal Nanbudo Association
Address	
Reg. no. & PAN no.	Regn. No. 5/1L188414 of 2011-2012 PAN no. AAAAW4247Q
Names of contact	Shihan Anil Kumar Ram, General Secretary, West Bengal Nanbudo Association

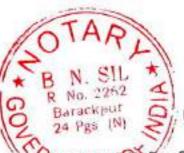
- The host organisation (P.N. DAS COLLEGE) will provide adequate space for the training
- 4. Make hall /room and other resources have a level for holding as per norms.
- Extend learning facilities to the learners and participants
- West Bengal Nanbudo Association will receive funds as per the financial understanding with P.N. Das College as an associate organisation.
- Salary of the teachers and its staff deputed by West Bengal Nanbudo Association will be provided by them including their travelling expenses from their respective place and return journey.
- Both the parties shall have the right to change/terminate the programme or MOU if the both the parties find that support services from both sides are not being provided as per the requirements of the programmes.
- In such a case of termination of the MOU both the parties will have to hand over all the assets and academic records to the respective parties to whom it belongs.
- Both the designated persons will also have to settle all the financial accounts with both the parties.
- All the accounts of the specific programmes and activities at the centre will be open and transparent to both the parties.
- Any unwanted happening or unlawful act at the centre will be dealt with by both the parties, sitting together.

HOLANATH SIL IOTARY - /2262 OVT OF INDIA

P.N. Das College Santinagar, Palla 24 Pons (N), Pint-743111 Cont. Page 4

General Secretary
West Bengal Nanbudo Association

0 7 AUG 2021



Page - 4



- 13. As per the understanding PN Das College college will pay an amount of Rupees 12,000 (Rs. Twelve thousand only) once and for all for the conduct of the Certificate Course on Self Defence, for the provision of the said course free of cost by the host institution to its students in the session 2021-2022, subject to its successful completion.
- 14. Course Fee for subsequent courses are to be fixed based on the curriculum and mutual agreement of both parties
- 15. This memorandum of understanding will be effective upon signature by the below authorised officials for the tenure of THREE-YEAR years and it may be renewed as per demands of both parties.

Accepted and signed on behalf of the Host Organisation by designated authority	Signed on behalf of West Bengal Nanbudo Association
Name: Dr. Sharmila De	Name: Shihan Anil Kumar Ram
Designation: Principal	Designation: General Secretary, West Bengal Nanbudo Association
Signature with SEAL: Principal P.N. Das College Santinagar, Palta 24 Pgns (N), Pint-743122	Signature with SEAL:
Witness:	Witness:
Place:	Place:

PREPARED By :-

Ashutosh Kundu

Barasat Judges' Court W.B. 1252/2003 BEFORE ME IN DENTIFICATION

BEFORE ME IN DENTIFICATION

BEFORE ME IN DENTIFICATION

1 2262

GOVIT OF INDIA



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

NAAC ACCREDITED - 2016

Ref.:		Date
	MEMORANDUM OF UNDERSTANDING	Cute mannermannermann

MEMORANDUM OF UNDERSTANDING

This memorandum of understanding herein after referred as MOU is made on day of January 2020. This MOU comes into effect on this day and remains valid for 5 (tive) years.

BETWEEN

RISHI BANKIM CHANDRA COLLEGE FOR WOMEN, having its collegebuilding at East Kanthal Para, P.O. – Naihati, Dist – 24 Parganas (North), Pin – 743165.

AND

P.N. DAS COLLEGE, Santinagar, Palta, West Bengal 743122

Rishi Bankim Chandra College for Women in collaboration with P.N. Das College will participate in the faculty exchange programme under the following terms and conditions:

- P.N. Das College & R.B.C. College for Women has the necessary permission
 of the concerned Governing Bodied regarding the MOU. That for the purpose
 mentioned ut supra both the colleges have agreed to exchange in the fields
 like Academic Exchange (including the joint classes held for the students of
 both the colleges, by the faculties of different departments) in a week/
 fortnight, the modus operandi of which will be settled jointly by the concerned
 departments of both the colleges.
- Cultural exchange like commemoration of birth anniversaries of renowned personalities, observance of different International/National Days, celebration of local festivals, inter-college cultural competitions etc. may be organized jointly.
- NSS activities: The colleges can share a few programmes of NSS activities as per the convenience and feasibility from both the colleges' end.
- 4. Research and Publication: Teachers of both colleges may participate in the seminar, workshop arranged by either of the colleges. Collaborative endeavours can be undertaken to publish research articles either in the proceedings of National and International seminars/ webinars etc., and/or in the form of edited volumes. A well-concerted contribution of the academic journals of both the colleges, publishing of Students' Magazines/webzines, departmental e-journals etc.



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

NAAC ACCREDITED - 2016

Ref.:

- Library facilities: Resources of both the colleges can be shared, modus operandi of which will be settled jointly by the Library departments of the colleges.
- Both the colleges may use the laboratory and infrastructural facility in case either of the colleges necessities it.
- It is agreed by both the colleges that expenses to be incurred in connection with different programmes will be borne by the respective college of the participants/candidates.
- Both the colleges have agreed that if additional assistance is required in that event Principal of both colleges will settle mutually after discussions.
- That in respect of the abovementioned programmes and/or activities only Principals of both the colleges will take all responsibilities regarding selection of candidate(s)/participant(s) and other matters of the said purpose.
- 10. If any disputes arise in respect of this MOU in that case Principal of both the colleges will discuss and settle the matter amicably.

IN WITNESS WHERE OF both the parties have set and subscribed their respective hands and seals on the day, month and year first above written.

Witnesses

1. Manika Poisnons

2. Madhuchlanda Lahiei.

Law Huckspadig

(On behalf of Rishi Bankim Chandra College for Women)

> R.B.C. College For Women Nathati, North 24 Parganus

SIGNATURE 2nd PARTY (On behalf of P.N. Das College)

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Pgs

Palls, P.O.: Bengel Enamel, North 24 Pargenes, Pin - 743122 (W.B.) Phone : (033) 2592 1327, Fax : (033) 2592 1327, e-mail : pndc principal 11@gmail.com Website www.pndaecollege.in

Date. 05.01.2021

MEMORANDUM OF UNDERSTANDING

Between

P.N.Das College, Santinagar, Palta, P.O-Bengal Enamel, North 24 Parganas-743122

Muralidhar Girls' College, P-411/14, Gariahat Road, Ballygunge Kolkata-700029

P.N.Das College, Santinagar, Palta, P.O-Bengal Enamel, North 24 Parganas-743122 and Muralidhar Girls' College, P-411/14, Gariahat Road, Ballygunge Kolkata-700029 hereby agree to become partner institutions for a period of 3 years to promote academic , and professional development and undertake extension activities for serving the community as a whole.

Objective of the MOU

- 1) To promote and enhance academic interest between two institutions
- To promote professional development.

Areas of Collaboration:

- 1) Organizing Quality Enhancement Programmes
- 2) Delivering lectures primarily through virtual platform for fulfilling bilateral needs of both the
- Organizing programmes to promote skill development of students and staff members.
- 4) OrganizingSeminar/ Workshop for professional and academic development
- To collaborate on extension activities .

The institutions reserve the right to review the development and include more programmes for mutual benefit.

P.N. Das College Pales, Spragel Eremed, M. 34 Page. Principal,

P.M.Das College, Santinagar, Palta, P.O-Bengal Enamel North 24 Parganas-743122

Kinjallui

DR. KINJALKINI BISWAS Principal Muralidhar Girls' College P-411/14, Gariahat Road olkata - 700029 Ballygunge Kolkata-700029



Ref.: ,....

P. N. DAS COLLEGE

Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.) Phone : (033) 2592 1327, Fax : (033) 2592 1327, e-mail : pndc.principal11@gmail.com Website: www.pndascollege.in

NAAC ACCREDITED - 2016

	With a vision to positively impact and take the growth curve of students to a new high, enabling
	them to cope up with the challenges of competitive global market, four colleges viz. Hiralal
1	Mazumdar Memorial College for Women , Dakshineswar, P. N. Das College, Palta, Sree
	Chaitanya Mahavidyalaya, Habra of North 24 Parganas under West Bengal State University and
	New Alipore College, Kolkata under Calcutta University are agreeing to work together for hand
	holding to promote quality education & innovation, to work for Intellectual Property Rights, for
	setting up Incubation Centre for the first time. This would be a new teaching-learning approach
	that would help empowering students with multidisciplinary skill and value added education, as
	well as for inculcation of scientific knowledge and creativity sprit.

Departments of Zoology, Environmental Science, Computer Science, Geography, English, Bengali, History etc. will hold hands of each other to promote this quality approach for a period of three years w.e.f. 07.06.2022.

Dr. Prof. Soma Ghosh

Principal, Hiralal Mazumdar Memorial

College For Women

Principal

Hiralal Mazemdar Memorial College

For Warnen

Dakshineswar, Kolkata-700 035

Dr. Prof. Subrata Chatterjee

Principal, Sree Chaitanya Mahavidyalaya

#5 Diefgial Sree Chaitar ya Manavidyalaya Habra-Prafullanagar, 24 Pgz (N) unila De orlochorz

Dr. Prof. Sharmila De

Dr. Prof. Sharmila De Principal, P.N. Das College Santinager, Patta 24 Pgns (N), Pirc-747

2.20rl

Date

Dr. Jaydeep Sarangi

Principal, New Alipore College Dr. Jaydeep Sarangi Principal

New Alipore College Kolkata-700053.



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

NAAC ACCREDITED - 2016

Ref.:	
25)	Date

Agreement of collaboration between P.N. Das College, Santinagar, Palta, North 24 Parganas, West Bengal and MahadevanandaMahavidyalaya, Monirampore, Barrackpore North 24 Parganas, West Bengal

This agreement is between P.N. Das College, Santinagar, Palta, represented by Dr. Sharmila De,and MahadevanandaMahavidyalaya, Monirampore, Barrackpore represented by

Dr. Nayan Kumar Sarkar, and for fostering collaborative academic growth and development.

Purpose of the Agreement

11/03/2020

- 1. Quality Initiatives
- 2. Online sharing of innovative ideas in Teaching Learning and e-Governance
- 3. ICT use for innovative Pedagogy

Principal

P.N. Das College

Principal

P.N. Das College

Palta, Bencol Enterel, M. 24 Por

Principal'

MahadevanandaMahavidyalaya

Mahadevananda Mahavidyalaya Monirampore, Barractipore North 24-Parganas

Mahadevananda Mahavidyalaya



NAAC reaccredited at "A" Grade

Monirampore, Barrackpore, North 24 Parganas, Pin - 700120 E-mail: mahadevanandamahavidyalaya@gmail.com, Web: mmbkp.ac.in Phone: +91 (033) 2592-0577, +91 (033) 2593-0843, Fax: +91 033 25930843

(Donor-Geo)	
Ref No	. Date

Agreement of collaboration between Mahadevananda Mahavidyalaya, Monirampore, Barrackpore North 24 Parganas, West Bengal and P.N. Das College, Santinagar, Palta, North 24 Parganas, West Bengal

This agreement is between Mahadevananda Mahavidyalaya, Monirampore, Barrackpore represented by Dr. Nayan Kumar Sarkar, and P.N. Das College, Santinagar, Palta, represented by Dr. Sharmila De, for fostering collaborative academic growth and development.

Purpose of the Agreement

- 1. Quality Initiatives
- 2. Online sharing of innovative ideas in Teaching Learning and e-Governance

3. ICT use for innovative Pedagogy

Mahodovanaoda M Monirampore, Barracki

North 24-Parganas

Principal

P.N. Das College

Principal

P.N. Das College

Palta, Bengal Enamel, N. 24 Pgs.





ACADEMIC LINKAGE CERTIFICATE

This Academic Linkage is hereby solemnised between Vijaygarh Jyotish Roy College, 8/2, Bejoygarh, Jadavpur, Kolkata- 700032 presented by Principal Dr Rajyasri Neogy and P.N. Das College, Santinagar, Palta, North 24 Parganas West Bengal-743122, presented by Principal Dr. Sharmila De for fostering collaborative academic growth and development, as envisaged by UGC and NAAC on 1/6/2020 for a period of 1 year with the following shared vision:

- 1. Quality Initiatives
- 2. Collaborative Research Work.
- 3. Value-based cultural and social initiatives
- 4. Online sharing of innovative ideas in Teaching- Learning
- 5. ICT use for innovative Pedagogy

This linkage will respect Intellectual Property Rights and any intellectual matter developed by the collaborative efforts of two colleges shall be retained by them. Both the colleges shall respect and retain confidentiality in each/any of the collaborative efforts, and all collaborative academic exercises shall be guided, directed and impelled by the greater academic interest of both the colleges, and not any other/commercial interest. No legal relationship between the two colleges is implied through this linkage, and any of the two colleges can choose to terminate the linkage with a prior written notice of six months.

This Academic Linkage shall uphold the ethos of holistic and integrated academic excellence and growth followed by all higher education institutions of the country, and shall not in any way impede or affect each of the participatory college's individuality and distinctiveness, by any way whatsoever.

R. NCO94 1.6.2020

Dr Rajyasri Neogy Principal Vijaygarh Jyotish Roy College 8/2, Bejovgarh, Jadavpur Kolkata 700032 Date: 01.06.2020

Principal

Vijaygarh Jyote ti Ray __ liege Kolkata-700 032

hamila de 01/06/2020

Principal

P.N. Das College, Santinagar,

North 24 Parganas West Bengal-743122

Date: 01-06-2028 ollege

Santinagar, Palta 24 Pgns (N), Pin:- 743122





MEMORANDUM OF UNDERSTANDING (OR COOPERATIVE AGREEMENT) BY AND BETWEEN

P.N. DAS COLLEGE

Santinagar, Palta, P.O.- Bengal Enamel, Dist. - North 24 Parganas, West Bengal, India and

BARASAT COLLEGE

Barasat, 1, Kalyani Road, P.O.-Nabapally, Barasat, North 24 Parganas, West Bengal, India

COLLABORATION AGREEMENT

This agreement is entered into by P.N. DAS College, Santinagar, Palta, P.O.- Bengal Enamel, Dist. - North 24 Parganas, West Bengal, India affiliated under West Bengal State University and Barasat College, 1 Kalyani Road, P.O.- Nabapally, Barasat, North 24 Parganas, West Bengal affiliated under West Bengal State University, on this day, the 7th day of April, 2022.

The purpose of this Agreement is to develop academic, co-curricular and extra- curricular collaboration through resource sharing, seminars, talks, and teachers/students exchange/publications, conducting certificate course, add on course and value added course between the two identified departments of two institutions and strengthen professional relations between the institutes.

Both departments undertake to promote and develop cooperation with various activities such as those listed below on the basis of equality and reciprocity:

- Students of both institutions will have equal access to quality enhancement programs organized by the departments at both institutions.
- It is understood that implementation of any of the types of cooperation stated in clause 1 and mentioned above shall depend upon the availability of resources and financial support at the institutions concerned.
- This agreement shall remain in force for three years if either institution does not terminate it by a minimum of a six-month written notification to the other institution.
- 4. This agreement may at any time be revised or modified, by mutual consent, within the period agreed upon by way of clause 4 mentioned above.

Principal & Secretary

P.N. Das College

Principal P.N. Das College Santinagar, Palta 24 Pgns (N), Pin:- 743122

Principal & Secretary/ TIC

Barasat College

Dr. Parthapratim Dasgupta .M.A. M.Phil, Ph.D Principal Barasat College Witness P.N. Das College

Witness Barasat College





MEMORANDUM OF UNDERSTANDING BETWEEN

P.N. Das College (Affiliated to West Bengal State University)

Santinagar, Palta, P.O. Bengal Enamel, P.S. Mohanpur, Dist. North 24 Parganas, PIN 743122, West Bengal

and

Malda College (Affiliated to University of Gour Banga)

Rabindra Avenue, Malda, PIN 732101, West Bengal.

Whereas, both Malda College and P.N. Das College already have vibrant Internal Quality Assurance Cells in place, functioning effectively and efficiently,

Whereas, both Malda College and P.N. Das College have decided to enter into an agreement with the purpose of the working together of the IQACs of the respective colleges, in developing quality initiatives, with an eye on learning from each other's experiences and innovative practices.

Whereas the colleges have agreed to work in mutual interest with the idea of collaboration in the exploration and development of ideas in emerging areas.

Whereas, the colleges have agreed to share, in certain cases, the financial burden in order to train and support the students/teachers/staff for constant upgradation.

This Agreement of Collaboration is, therefore, signed by P.N. Das College, Santinagar, Palta, P.O. Bengal Enamel, P.S. Mohanpur, Dist. North 24 Parganas, PIN 743122, West Bengal, represented by Dr. Sharmila De, Principal, and Malda College (Affiliated to University of Gour Banga), Rabindra Avenue, Malda, PIN 732101, West Bengal, represented by Dr. Manas Kumar Baidya, Principal on 8th December 2019, for a period of 7 years to promote mutual interest in the following aspects:

Malda Collega, Malda

- Quality initiatives.
- 2. Exchange lectures and invited talks.
- 3. Students' Counselling.
- 4. Academic Audit through Peer Review.
- Application of ICT in teaching-learning-evaluation and administration.

Principal P.N. Das College Sentinager, Palta 24 Pprs (N., Pin-74312?



পশ্চিম্বুজা पश्चिम**শট্পের্ম্পুট্রপা তুরু দ্র্যুক্তর স**

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ULUBERIA COLLEGE,ULUBERIA, HOWRAH, WEST BENGAL AND P. N. DAS COLLEGE,PALTA, WEST BENGAL

FOR THE DEVELOPMENT OF ACADEMIC COOPERATION IN HIGHER EDUCATION

This Memorandum of Understanding ("MOU") is to promote academic linkages between the two institutions and facilitate their development of collaborative and mutual programs that will enhance the intellectual life of both institutions, contribute to increased cooperation and promote mutual understanding. Thus, Ulubria College, Uluberia, Howrah, West Bengal, PIN-711315 and P.N. Das College, Santinagar, Palta, West Bengal, 743122, have agreed to the following:

1. Framework for specific Agreement

This Memorandum of Understanding ("MOU") is a framework for specific collaborative initiatives to be developed between the two institutions.

2. Areas of Collaboration

Both parties have agreed to explore and implement mutually rewarding initiatives in the following areas of academic cooperation:

- Online sharing of innovative ideas in Teaching Learning and e- Governance;
- 2. Collaborative research;
- 3. Sharing of scientific information on areas of mutual interest.
- 4. Faculty and student mobility;
- 5. Library sharing;
- 6. Joint national/international seminars/workshops:
- 7. Other academic collaboration, including publications.

Ramula De Principal PM I « Cullege Ita

, Pin:- 743122

Principal
ULUBERIA COLLEGE
Uluberia, Howrah

2 4 MAR 2021

3. Development of initiatives

Areas of cooperation will be defined between the Uluberia College and P.N. Das College throughout the duration of the MOU and further agreement of academic agreements of academic collaboration may result for specific collaborative activities. Neither institution shall have any financial commitments to each other, nor through this MOU, real or implied. Bothe parties agree, however, to endeavour to secure government, corporate or other party funding where possible in order to support the collaborative activities covered by the agreement.

4. Confidentiality and Intellectual property rights (IPR) protection

Both the institutions shall respect and retain confidentially in each/ any of the collaborative efforts, and all collaborative academic exercises shall be guided, directed and impelled by the greater academic interest of both the colleges, and not any other / commercial interest.

This MOU will respect Intellectual Property Rights and any intellectual matter developed by the collaborative efforts of two institutions shall be retained by them.

5. Duration, Amendment and Termination of the MOU

This MOU will remain in effect for a period of 5 (five) years from the last date of signing. It may be amended at any time by mutual agreement and in writing as an addendum. No legal relationship between the two institutions is implied through this agreement. Either party may terminate for this MOU at any time and for any reason by giving the other party at least three (3) months written notice of its decision.

6. Signatures

For Uluberia College

Dr. Debasish Pal

Principal, Uluberia Collegecipal

ULUBERIA COLLEGE Uluberia, Howrah

For P.N. Das College

Dr. Sharmila De

Principal, P.N. Das College

nila De

Principal P.N. Das College Santinagar, Palta 24 Pgns (N), Pin:- 743122 Shibsankaron

Witness

Coordinator Uluberia College

Date

Witness

Co-ordinator, IQAC

P. N. Das College Palta, 24 Pgs. (N), Pin-743122

Memorandum of Understanding

on

Academic Cooperation

between



P.N. Das College Santinagar, Palta, P.O.- Bengal Enamel, Dist.-North 24 Pgs, West Bengal, PIN-743122.



K.K. Das College GRH-17, Baishnabghata-Patuli, (PO - Garia, Kolkata, PIN-700084)

This Memorandum of Understanding is hereby solemnised between P.N.Das College, Santinagar, Palta, PO- Bengal Enamel, Dist-North 24 Pgs., West Bengal, PIN-743122 and K.K.Das College, GRH-17, Baishnabghata-Patuli, PO-Garia, Kolkata- 700084 for nourishing collaborative academic growth and development of both the colleges for a period of Five Years w.c.f. 15.02.2023 with the following shared vision:

- 1. Building up Academic Partnerships
- Online sharing of innovative ideas in Teaching-Learning and e-Governance
- 3. Institutes preparedness for NEP matters
- 4. Library sharing
- 5. Teacher Exchange Programme
- 6. Jointly organising National/International Seminars/Workshops.
- 7. Collaborative Research Works
- Collaborative mentorship for NAAC matters
- 9. To host students career orientation programmes jointly.

This MOU will respect Intellectual Property Rights and any intellectual matter developed by the collaborative efforts of two colleges shall be retained by them



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Or. Confinence Penal (Salpaborty Principal K. K. DAS COLLEGE Garia, Kal-84 Both the colleges shall respect and retain confidentiality in each/ any of the collaborative efforts, and all collaborative academic exercises shall be guided, directed and impelled by the greater academic interest of both the colleges, and not any other / commercial interest. No legal relationship between the two colleges is implied through this linkage, and any of the two colleges can choose to terminate the linkage with a prior written notice of six months.

This MOU shall uphold the ethos of holistic and integrated academic excellence and growth followed by all higher education institutions of the country, and shall not in any way impede or affect each of the participatory college's individually and distinctiveness, by any way whatsoever.

Principal

P.N.Das College

Palta, North 24-Pgs.

Principal K.K.Das College Garia, Kolkata - 84

Or. Rambrishna Prasad Chabraborty Principal K. K. DAS COLLEGE Garia, Kol-84

Witnessest

1. N. Munshi 15. 02.2023

K. K. Dax Callege GRH-17, Baishnabghata-Patuli

P. N. Das College P. N. Das College 2. Walnin'



পশ্চিমকণ पश्चिम बंगाल WEST BENGAL

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Memorandum of Understanding between Gour Mohan Sachin Mandal Mahavidyalaya, Bireswarpur, Mandir Bazar, South 24 Parganas, 743336 and P.N. Das College, Santinagar, Palta, North 24 Parganas, West Bengal.

(has what Of Principal P.N. Das College

This Memorandum of Understanding (MOU) is hereby solemnized between Gour Mohan Sachin Mandal Mahavidyalaya, Bireswarpur, Mandir Bazar, South 24 Parganas, 743336 represented by Principal Dr. A.J. Hasan and P.N. Das College, Santinagar, Palta, North 24 Parganas, West Bengal represented by Principal Dr. Sharmila De for fostering collaborative academic growth and development, as envisaged by UGC and NAAC for a period of 2 years w.e.f.

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Pgs

M.S.M. Mahavidyalaya



Principal
G.M.S.M. Mahavidyalaya
Vill. & P.O.-Bireswarpur
Dist. - 24 Pargs (S), W.B.



Legal Framework of both the organization

Gour Mohan Sachin Mandal Mahavidyalaya

UGC approved NAAC Accredited B++ College affiliated to University of Calcutta. Hereafter referred to as First Party

P.N. Das College

UGC approved NAAC Accredited B Grade College, affiliated to the West Bengal State University, hereafter referred to as Second Party.

II. Purpose of the Agreement

- Quality Initiatives
- Online sharing of innovative ideas in Teaching Learning and e-Governance ii.
- ICT use for innovative Pedagogy iii.
- Teacher Exchange Programme iv.
- Staff Development Programme V.
- To work towards higher education for all vi.
- Collaborative Research Work vii.
- Value based cultural and social initiatives for the greater good of society. viii.

This linkage will respect Intellectual Property Rights and any intellectual matter developed by the collaborative efforts of two colleges shall be retained by them. Both the colleges shall respect and retain confidentially in each /any of the collaborative efforts, and all collaborative academic exercises shall be guided, directed and impelled by the greater academic interest of both the colleges, and not any other/ commercial interest. No legal relationship between the two colleges is implied through this linkage, and any of two colleges can choose to terminate the linkage with a prior written notice of six months.

This academic linkage shall uphold the ethos of holistic and integrated academic excellence and growth followed by all higher education institutions of the country, and shall not in any way impede or affect each of the participatory college's individuality and distinctiveness, by any way whatsoever.

G.M.S.M. Mahavidyalaya Vill. & P.O.-Bireswarpur Principal Vill. & P.O. Bargs (S), W.B.
Gour Mohan Sachi Mahadal Mahavidyalaya

Bireswarpur, Mandir Bazar, 24Pgs(S)

Dr. Sharmila De Principal

P.N. Das College North 24 Paraganas.

Principal P.N. Das College Palia, Bengal Enamel, N. 94 Fgs

Witness:





MEMORANDUM OF UNDERSTANDING

THIS MEMORANDUM OF UNDERSTANDING (MoU) made this 2ND day of July, Two Thousand and Twenty.

BETWEEN

P.N. DAS COLLEGE
Santinagar, Bengal Enamel, Palta, North 24 Parganas, Pin- 743122
AND

Paschim Banga Vigyan Mancha
Pritha Dasgupta Bhavan, Banamalipur, Barasat, North 24 Parganas, PIN- 700126

This Memorandum of Understanding is made on 2nd July, 2020 between P.N. Das College and Paschim Banga Vigyan Mancha, North 24 Parganas District Committee, for mutual cooperation in Academic and technical consultancy in technology application and issues related to scientific awareness. This document establishes the guiding term and principles of understanding between the two organisations that have been organising events/programmes on technological support and scientific awareness over more than two years, like rainwater harvesting, hands-on scientific experiments, spreading awareness on scientific issues, etc.

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uGC approved, NAAC accredited, affiliated under the West Bengal State University and Government of West Bengal aided college, P.N. Das College, Palta, W.B., India, represented by Dr. Sharmila De, Principal, P.N. Das College, hereinafter referred to as the FIRST PARTY (which term or expression shall unless excluded by or repugnant to the contest be deemed to mean and include its successor in office, representatives administrators and assigns) Paschim Banga Vigyan Mancha, North 24 Parganas District Committee, represented by Sri Sourav Chakrabarti, President, North 24 Parganas District Committee, Paschim Banga Bigyan Mancha, as the SECOND PARTY (which term or expression shall unless excluded by or repugnant to the context be deemed to mean and include its successor in office, representatives, administrators and assigns). Both these organizations will be hereafter referred to as Parties.

Objectives of the Agreement:

- Transferring technological and scientific knowhow to improve livelihood and for popularization of science and development of scientific temper.
- To develop environmental awareness.
- Awareness on health related issues among the stakeholders.
- Nature Study
- Introducing hands on experiments
- Awareness against superstitions.
- Training and capability building.

PURPOSE OF THE MOU:

The purpose of this MOU is purely academic and technical consultancy related. Both the Parties specifically intend to:

Carrying out different Research and Development activities

 Grrying out different Awareness programmes, seminars and symposia, workshops and specialized training.

Implementation of different or scientific and environmental Projects.

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Exchange of ideas and data that are required for conducting any research projects.

Target towards collaborative works on setting up / enabling environment to spread Education and Skill development, know how about research and development, expertise, best practices in the areas of Research and development, Higher education, Skills Training, "Train the Trainer" programs, Assessment, training of 'Assessor', conduct Skill Gap analysis, provide specific knowhow on skills training and technology, prior learning recognition, create assessment and certification programs.

Execution of the Agreement

The Specific activities to be carried out under this agreement will be in corresponding specific sub-agreements. Such specific sub-agreements, once approved by both parties, will be attached as annexes to this agreement.

The specific sub-agreements between both Parties will specify their objectives, conditions and ways of execution, financial support, period the sub-agreement will be in effect and administrative responsibility within each institution.

The second party will conduct the following activities for the first party:

- Programmes conducted by experts of respective areas.
- Practical hands on training content.
- Course instructions and material available in Hindi, English and other vernacular languages.
- Customized/indigenously developed training content and technology conforming to Indian conditions and requirements.
- Onsite training provided by the faculty at Client's location.
- Strong research and development team to develop new training programs as per the client's requirement.

Term and expiration of the Agreement:

It is uncerstood that this MOU will come into effect after being signed by both

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rties and will extend till one of the parties expresses an intention notification) to cancel the MOU. The amendment, termination and expiration of this agreement will not affect the terms of activities ongoing at the time of notification of amendment, termination for expiration, unless otherwise agreed upon between both parties.

Any additions, changes or deletions to this agreement must be approved by the representatives of both parties. All notices shall be in writing and shall be directed to these representatives.

Non-Exclusivity:

The MOU is a non-exclusive agreement, and both parties remain free to enter into similar agreements with third parties.

SPECIAL PROVISIONS:

- Each party will take approval from the other party, in writing, prior to using the later name and logo for the activities on a case by case basis.
- Both parties shall do their utmost to ensure the smooth and efficient implementation of the programmes.
- 3. The parties will consult with each other for any subsequent associated agreement informally and attempt to resolve disputes or misunderstandings that may arise in the administration/execution of this MOU or any subsequent associated agreement informally.
- 4. Neither party can misuse this MOU by involving the name of the other without the written consent from the other party.
- There will be no financial involvement by either party.

DISPUTES:

If any displetes arises in respect of the MOU, both the organisations will discuss and settle the matter amicably.

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SIGNATURE WITH CONSENT :

For Paschim Banga Vigyan Mancha North 14 Pageres Durhiel Councille		For P.N. Das College, Palta	
Name:	ILI SOURAN CHAKRABARTE	Name:	Dr. Sharmila De
Designation:	President, North Wys	Designation:	Principal
Signature:	Serview charcrubal	Signature:	Charmilas
Date:	02.07.2020	Date:	02/07/2020
den	Presidens FREERIM Bengs Vigyas Mapob		
Witness	Julen un Ghorn.		Danjel Kumar Show

ATTESTED EXECUTION
ORE MF ON IDENTIFICATION

Identified by me

ASHUTOSH KUNDU

Advocate Barasat Judges' Court W.B. 1262/2003



পশ্চিমবঙ্গ पश्चिम बंगाल WEST BENGAL

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THIS MEMORANDUM OF UNDERSTANDIG is made on this 26th day of September, 2019, BETWEEN P.N. Das College, UGC approved 1st cycle NAAC accredited college affiliated under the West Bengal State University and Government of West Bengal aided college, having its campus at Santinagar, Palta, P.O.- Bengal Enamel, North 24 Parganas, 743122, West Bengal, represented by its Principal Dr. Sharmila De, daughter of Late Madhusudan Roychowdhury, hereinafter referred to as the FIRST PARTY (which term or expression shall unless excluded by or repugnant to the context be deemed to mean and include its successor in office, representatives, administrators, and assigns) OF THE ONE PART



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RIGHT BRAINS TECHNOLOGY, a private concern, having its Office at Ground Floor, Sanghoti Abasan, Garia Main Road, P.S. Narendrapur, Kolkata-700 084, represented by its Proprietor Sri Rajib Mukherjee, son of Sri Ananda Gopal Mukherjee, hereinafter referred to as the SECOND PARTY (which term or expression shall unless excluded by or repugnant to the context be deemed to mean and include its successor in office, representatives, administrators, and assigns) OF THE OTHER PART.

WHEREAS the P N Das College, I" cycle NAAC accredited college, with a view to improving Advancement of Learning and Need-based Education desirous to provide carrier-oriented Certificate Course of Competitive Success in collaboration with the Right Brains Technology, a registered software company and the Second Party has agreed to the said proposal.

NOW THIS AGREEMENT WITNESSETH and it is agreed by and between both the parties hereto as follows:

- Those for the above mentioned purpose both the Parties have agreed to start Competitive Success.
- The Career Counselling of the college will look after the day-to-day activities.
- That the Second Party/ Right Brains Technology will render and provide online Competitive Success, Technical advice and assistance to the students who enrol themselves for the said Course.
- 4. That the Course fee will be Rs.100/-(Rupees one hundred) only which is to be deposited in the Account of the Second Party and the duration of the Course will be at least 6 months.

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5. Both the Parties will take necessary permission/ Approval from the concerned

Authorities regarding the above matters.

6. Both the Parties have agreed that if additional assistance is required, Principal of P.N.

Das College and Mr. Rajib Mukherjee of Right Brains Technology will settle the matter

mutually after discussions.

7. That in respect of the above mentioned Course only the Principal of the college will

take all responsibilities regarding selection of candidates/participants and other matters of

the said purpose.

If any disputes arise in respect of this Agreement, then Principal of the College and Mr.

Rajib Mukherjee will discuss and settle the matter amicably.

That this Memorandum of Understanding is valid up to 26.09.2024.

10. The College can provide Students only but the college will not take any financial

responsibility.

IN WITNESS WHERE OF, both the parties have set and subscribed their respective

hands and seals on the day, month and year first above written

SIGNATURE 1st PARTY

P.N. Das College

SIGNATURE 2nd PARTY

Witnesses:

1. Madhuchlanda Lalivi

2.

Co-ordinator, IQAC P. N. Das College raits, 24 Pgs. (N), Pin-743122 RIGHT BRAINS TECHNOLOGY

Proprietor

3 of 3



शिक्तिका पश्चिम बंगाल WEST BENGAL

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MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

P.N. DAS COLLEGE

SHANTINAGAR, PALTA P.O. BENGAL ENAMEL, 24 PGS NORTH

WEST BENGAL-743122, INDIA

AND

BASIRHAT COLLEGE

BASIRHAT, 24 PGS NORTH, WESTBENGAL-743412, INDIA

This Memorandum of Understanding (MoU) is hereby solemnized between P.N. Das College, Santinagar, Palta, North 24 Parganas. Pin-743122 West Bengal represented by Principal Dr. Sharmila De and Basirhat College. Basirhat. North 24 Parganas. West Bengal, Pin-743412 represented by Principal Dr. Ashoke Kumar Mondal for fostering collaborative academic growth and development, as envisaged by UGC and NAAC for a period of 5 years w.e.f. 02.11.2021.

harmela De



1. Legal Framework of both the organization

P.N. Das College

UGC approved NAAC Accredited B Grade College, affiliated to the West Bengal State University, hereafter referred to as First Party

Basirhat College

UGC approved affiliated to West Bengal State University, hereafter referred to as Second Party

2. Purpose of the Agreement

- Quality Initiatives
- (i) Online sharing of innovative ideas in Teaching Learning and e-Governance
- in ICT use for innovative Pedagogy
- (v) Teacher Exchange Programme
- v. Staff Development Programme
- vi. To work towards higher education for all
- vii. Collaborative Research Work
- viii. Value based cultural and social initiatives for the greater good of society.

This linkage will respect Intellectual Property Rights and any intellectual matter developed by the collaborative efforts of two colleges shall be retained by them. Both the colleges shall respect and retain confidentially in each any of the collaborative efforts, and all collaborative academic exercises shall be guided, directed and impelled by the greater academic interest of both the colleges, and not any other commercial interest. No legal relationship between the two colleges is implied through this linkage, and any of two colleges can choose to terminate the linkage with a prior written notice of six months.

This academic linkage shall uphold the ethos of holistic and integrated academic excellence and growth followed by all higher education institutions of the country, and shall not in any way impede or affect each of the participatory college's individuality and distinctiveness, by any way whatsoever.

Dr. Sharmila De

Principal ;

Principal P.N. Das College

P.N. Das Collaparta, Bengal Enamel, N. 24 Pgs

Palta, North 24 Parganas

Dr. Ashoke Kumar Mondal

Principal

Basirhat College

Basirhat, North 24 Paraganas

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Co-ordinator, IQAC Bushat, North 24 Fgz

Principal BASIRHAT COLLEGE

P. N. Das College

2 11 2-21 Falte, 114 Pgs. (N), Pin-743122

Coordinator, IQAC Basirhat College North 24 Paryanas



পশ্চিমবংশ্ব पश्चिम बंगाल WEST BENGAL

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MEMORANDUM OF UNDERSTANDING

BY AND BETWEEN

P.N. DAS COLLEGE Santinagar, Bengal Enamel, Palta, North 24 Parganas, Pin- 743122

And

GLOBAL EHS CONSULTANT
(Registration No. 279)
38/F Vivekananda Road (2nd), Barrackpore, Kolkata-7000123

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Ashutosh Kundu

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This memorandum of understanding (MOU) is made on 30.04.2022 between P.N. Das College and Global EHS Consultant for mutual cooperation in Academic and technical consultancy in environment, health and safety issues. This document establishes the guiding term and principles of collaboration between two organisations.

Legal Frameworks of Both the Organisations:

UGC approved NAAC accredited, affiliated under the West Bengal State University and Government of West Bengal aided college, P.N. Das College, Palta, W.B., India, represented by Dr. Sharmila De, Principal, P.N. Das College, here in after referred to as the FIRST PARTY (which term or expression shall unless excluded by or repugnant to the contest be deemed to mean and include its successor in office representatives administrators and assigns) Global EHS Consultant (regn no. 279) represented by its Founder and Managing Partner, Dr Susanna Poddar as the SECOND PARTY (which term or expression shall unless excluded by or repugnant to the context be deemed to mean and include its successor in office, representatives, administrators and assigns). Both these organizations will be hereafter referred to as Parties.

Objectives of the MoU:

- Latest risk management strategies and best practices.
- Fire and Safety Audit.
- Environment Due Diligence Assessment.
- Training and capability building on EHS.
- Tailored research, training and presentations, including country analysis and benchmarking.
- One stop solution for EHS compliance including analysis and monitoring of EHS parameters, partnering with State Pollution Control Board and Chief Inspector of Factories approved laboratory for analysis of Environmental parameters.

PURPOSE OF THE AGREEMENT:

The purpose of this agreement is purely academic and technical consultancy related. Both the Parties are intending to specifically:

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- Carrying out different R & D activities
- Carrying out different Awareness programmes, seminars and symposium, workshops and specialized training.
- Implementation of different CSR and or Socio economic and environmental
 Projects.
- Exchange of ideas and data that are required for conducting any research projects.
- ◆ Target towards collaborative and joint works on setting up enabling environment to spread Education and Skill development & R & D know how, expertise best practices in the areas of R & D, Higher education, Skills Training, Train the Trainer programs, Assessment, training of 'Assessor', conduct Skill Gap analysis, provide specific knowhow on skills training and technology, prior learning recognition, create assessment and certification programs.

Execution of the Agreement

The Specific activities to be carried out under this agreement will be in corresponding specific sub-agreements. Such specific sub-agreements, once approved by both parties, will be attached as annexes to this agreement.

The specific sub-agreements between both Parties will specify their objectives, conditions and ways of execution, financial support, period the sub-agreement will be in effect and administrative responsibility within each institution.

The second party will conduct the following activities for the first party:

- Programmes conducted by trained safety & fire experts, process safety engineer, fleet management experts.
- Practical hands on training content.
- Course instructions and material available in Hindi, English and other vernacular languages.
- Customized/indigenously developed training content conforming to Indian conditions and requirements.

Cont.... page 4

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- Onsite training provided by own faculty at Client's location across country
- Strong research and development team to develop new training programs as per the client's requirement.

Term and expiration of the Agreement:

It is understood that this agreement will come into effect after being signed by both parties and will be established for a period of three years. After these three years it will be automatically extended for the same period, under which one of the parties expresses an intention (by written notification) to cancel the agreement at least 90 days before the expiry date. The amendment, termination and expiration of this MOU will no, affect the terms of activities ongoing at the time of notification of amendment, termination for expiration, unless otherwise agreed upon between both parties.

Any additions, changes or deletions to this agreement must be approved by the representatives of both parties. All notices shall be in writing and shall be directed to these representatives.

Non-Exclusivity:

The agreement is a non-exclusive agreement, and both parties remain free to enter into similar agreements with third parties.

SPECIAL PROVISIONS:

- 1. Each party will take approval from the other party in writing prior to using the later name and logo for the activities here on a case by case basis.
- 2. All parties hereto shall do their utmost to ensure the smooth and efficient implementation of the programmes.
- 3. The parties will consult with each other for any subsequent associated agreement informally and attempt to resolve disputes or misunderstandings Popper 01.04.

Cont.... page 5

- may arise in the administration of this MOU or any subsequent associated agreement informally.
- Neither party can misuse this MOU by involving the name of the other without the written consent from the other party.
- 5. There will be no financial involvement by either party.

DISPUTES

If any disputes arise in respect of the MoU, in that ease both the organisations will discuss and settle the matter amicably.

SIGNATURE WITH CONSENT:

For Global EHS Consultant, Kolkata		For P.N. Das College, Palta	
Name:	Dr. Susanta Podder	Name:	Dr. Sharmila De
Designation:	Founder & Managing Partner	Designation:	Principal
Signature:	8 podh	Signature:	harmila de.
Date:	30.04.2022	Date:	30.04.2022
Seal:		Seal:	Principal P.N. Das College Santinagar, Palta 24 Pgns (N), Pin:-743122
Witness:			P. N. Das College Palta, 24 Pgs. (N), Pin-743122
Place :			



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1326, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

NAAC ACCREDITED - 2016

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R_{i}	of.:	Date

CERTIFICATE OF ACADEMIC LINKAGE

This is to certify that Smt. Bonny Samanta, Assistant Professor, Department of Education, P.N. Das College has entered into an academic linkage for research-related activities with Smt. Rimpa Saha, Assistant Professor, Dewan Abdul Gani College, Dakhshin Dinajpur, West Bengal, India.

The linkage has resulted in the publication of the research paper, "Challenges Faced by Women in Higher Education in India" in Volume II, Issue 5 of Journal of Information and Computational Science (UGC Care II listed with ISSN 1548-7741).

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Fgs

12/3/5/23



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

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Website: www.pndascollege.in

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CERTIFICATE OF ACADEMIC LINKAGE

This is to certify that Smt. Bonny Samanta, Assistant Professor, Department of Education, P.N. Das College has entered into an academic linkage for research-related activities with Shri Rahul Nath, Research Scholar, Jadavpur University, Kolkata, West Bengal, India.

The linkage has resulted in the publication of the research paper, "Two Astonishing Personalities Anne Sullivan and Helen Keller and their Heroic Companionship" in Volume 9, Issue 1 of International Journal of Creative Research Thoughts (ISSN 2320-2882).

P.N. Das College Palte, Bengal Enamel, N. 24 Pgs



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Website: www.pndascollege.in

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CERTIFICATE OF ACADEMIC LINKAGE

This is to certify that Smt. Priya Biswas, Assistant Professor, Department of Economics, P.N. Das College has entered into an academic linkage for research-related activities with Dr. Debaprasad Sarkar, Associate Professor & Head, Department of Economics, Barrackpore Rashtraguru Surendranath College, Barrackpore, Kolkata, West Bengal, India.

The linkage has resulted in the publication of the research paper, "Survival Challenges of the Elderly People During COVID-19 Pandemic: Evidence from West Bengal, India" in the book Social, Economic, Educational and Environmental Impact of COVID-19 Issues and Challenges published by Indian Academic Researchers Association (ISBN 978-81-948552-0-0).

P.N. D. College Palta, Bengal Enamel, N. 24 Pgs



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Phone: (033) 2592 1327, Fax: (033) 2592 1326, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

NAAC ACCREDITED - 2016

Date

CERTIFICATE OF ACADEMIC LINKAGE

This is to certify that Smt. Priya Biswas, Assistant Professor, Department of Economics, P.N. Das College has entered into an academic linkage for research-related activities with Sanchita Roy, Research Scholar, Vidyasagar University, Midnapur, West Bengal & Faculty, Barrackpore Rashtraguru Surendranath College, Barrackpore, Kolkata, West Bengal, India.

The linkage has resulted in the publication of the research paper, "Survival Challenges of the Elderly People During COVID-19 Pandemic: Evidence from West Bengal, India" in the book Social, Economic, Educational and Environmental Impact of COVID-19 Issues and Challenges published by Indian Academic Researchers Association (ISBN 978-81-948552-0-0).

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CERTIFICATE OF ACADEMIC LINKAGE

This is to certify that Smt. Debaroti Das, MAPPT, P.N. Das College has entered into an academic linkage for research-related activities with Dr. S.P. Sinharay, Ex-Member, CGWB, MoJS, DoWR, RD&GR, GOI.

The linkage has resulted in the publication of the research paper, "Landuse Pattern Change in North Dum Dum Municipality from 2001 to 2016" in Volume 37 of Indian Cartographer: Journal of the Indian National Cartographic Association (ISSN 0927-8392).

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CERTIFICATE OF ACADEMIC LINKAGE

This is to certify that Smt. Debaroti Das, MAPPT, P.N. Das College has entered into an academic linkage for research-related activities with Sandhya Bhaduri, Ex-Deputy Director, NATMO, DS&T, GOI.

The linkage has resulted in the publication of the research paper, "Landuse Pattern Change in North Dum Dum Municipality from 2001 to 2016" in Volume 37 of Indian Cartographer: Journal of the Indian National Cartographic Association (ISSN 0927-8392).

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CERTIFICATE OF ACADEMIC LINKAGE

This is to certify that Shri Bablu Biswas, Department of Mathematics, P.N. Das College has entered into an academic linkage for research-related activities with Shri D.K. Ganguly, Department of Pure Mathematics, University of Calcutta, Kolkata, India.

The linkage has resulted in the publication of the research paper, "Some Properties of a Function Connecting to Exponent of Convergence for Double Sequences" in Volume 10, Number 2 of *Journal of Classical Analysis* [ISSN 1848-5979 (print), ISSN 1848-5987 (online)].

> P.N. Das College Palis, Bengal Enamel, N. 24 Pgs

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CERTIFICATE OF ACADEMIC LINKAGE

This is to certify that Shri Bablu Biswas, Department of Mathematics, P.N. Das College has entered into an academic linkage for research-related activities with Shri Alauddin Dafadar, Department of Mathematics, Bhatter College, Dantan, Paschim Medinipur, West Bengal, India.

The linkage has resulted in the publication of the research paper, "Some Properties of a Function Connecting to Exponent of Convergence for Double Sequences" in Volume 10, Number 2 of *Journal of Classical Analysis* [ISSN 1848-5979 (print), ISSN 1848-5987 (online)].

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CERTIFICATE OF ACADEMIC LINKAGE

This is to certify that Chandan Sarkar, PhD Research Scholar, Department of Geography, Visva-Bharati, Shantiniketan, West Bengal, India & Assistant Professor, Department of Geography, P.N. Das College, has entered into an academic linkage for research-related activities with Uma Sankar Malik, Professor, Department of Geography, Visva-Bharati, Shantiniketan, West Bengal, India.

The linkage has resulted in the publication of the research paper, "Processes and Pattern of Urbanization in North 24 Parganas District, West Bengal" in Volume XLIX, No. 1 of Indian Journal of Regional Science (ISSN: 0046-9017).

Principal
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List of activities conducted under each MoU

(Dealers)

Principal
P.N. Das College
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Website: www.pndascollege.in

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ACTIVITIES UNDER MOU

Teacher exchange Programme
Dept. of Physical Education,
P.N.Das College
Santinagar, Palta, Kolkata- 743122,

West Bengal, India,

With

DR. B. R. AMBEDKAR SATABARSHIKI MAHAVIDYALAYA

P.O: Helencha, P.S: Bagdah, West Bengal, India

SI.	Name of the Topic	Date/ No. of days	Teachers involved	Mode of Activity	No. of Participants
No 1	Heart structure and mechanism of blood circulation through heart (3 rd Semester)	21.09.2020	DR. AJIT DAS	Online	20
2	Effect of exercise on circulatory system, Blood Pressure, Athletic Heart and Bradycardia (3 rd Semester)	22,09.2020	DR. AJIT DAS	Online	24
3	Respiratory organs and mechanism of respiration (3rd Semester)	28.09.2020	DR. AJIT DAS	Online	16
4	Vital capacity, oxygen debt and second wind (3 rd Semester)	29.09.2020	DR. AJIT DAS	Online	04

Signature of the Principal

Dr. B. R. Arphedos atabarshiki Mahavidyalaya

DR. CHITTARANIAN DAS Dr. B.R.A.S Mahavidyalaya Helenche, North 24 Parganas Signature of the Principal

P.N.Das College

Principal P.N. Das College

Palta, Bengal Enamel, N. 24 Fqs.



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

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ACTIVITIES UNDER MOU

P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

DR. B. R. AMBEDKAR SATABARSHIKI MAHAVIDYALAYA P.O: Helencha, P.S: Bagdah, West Bengal, India

Mode of No. of Date/ No. Resource Persons/Teachers SI. Name of the Activity Participa No Programme/ Topic of days involved nts Dr (CA) Satyajit Dhar, Professor, Offline 45 teachers Seminar on IPR 20.7.2019 University of Kalyani, Venue, P.N. and students Das College Dr. Agnidipta Tarafder, Asst. Professor, West Bengal National University of Juridical Sciences Sri Sujoy Sarkar, Dy. Controller of Patents & designs, Patent office, Kolkata Offline 50 Students 02.10.2019 Prof. Suman Ranjan Bandyopadhyaya Programme on Gandhi 2 from P.N Prof. Sanjib Dhar Venue: P.N. Global Solar Yatra Dr. Bablu Biswas Das College Das College Prof Bonny Samanta and Dr. B.R. Ambedkar Satabarshiki Mahavidyala ya 18.5.2020 Dr. Agnidipta Tarafder, Asst. Professor, Online 86 college 3 Webinar on West Bengal National University of teachers. IPR/RTI/RTP Juridical Sciences from different colleges of the state Dr. Chittaranjan Das, Dr. B. R. Ambedkar 30 staff One day Seminar on 30.8.2022 Offline:

Satabarshiki Mahavidyalaya

Signature of the Principal

Preparation for

Accreditation

Dr. B. R. Ambedber Satabarshiki Mahavidyalaya

DR. CHITTARANJAN DAS Dr. B.R.A.S Mahavidyalaya Helencha, Korth 24 Parganas Signature of the Principal

P.N.Das

College

members

P.N.Das College

Principal P.N. Das College Palia, Bengal Enamel, N. 24 Fga



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ACTIVITIES UNDER MOU Teacher exchange Programme Dept. of English, P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Gobardanga Hindu College, P.O: Khantura, 24 Parganas(North) West Bengal, India, Pin-743273

S1. No	Title of the Programme	Date/ No. of days	Convenor/ Teachers involved	Mode of Activity	No. of
1	Post-colonial Literature David Malouf-Resolving days (Semester-6, CC 14)	05.04.2023	Kakali Sen Banerjee. Associate Professor P.N. Das College	Online	Participants 36
2	Post-colonial Literature David Malouf-Resolving days (Semester-6, CC 14)	13.04.2023	Kakali Sen Banerjee, Associate Professor P.N. Das College	Online	27

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Signature of the Principal Gobardanga Hindu College

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Gobardanga Hindu College
Khantura, North 24-Pgs

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Principal P.N. Das College

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Santinagar, Palta, P.O.: Bengal Ensmel, North 24 Parganas, Pin - 743122 (W.B.)
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Website: www.pndascollege.in

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Date	***************************************
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ACTIVITIES UNDER MOU

Teacher exchange Programme
Dept. of English,
P.N.Das College
Santinagar, Palta, Kolkata- 743122,
West Bengal, India,
With

Gobardanga Hindu College, P.O: Khantura, 24 Parganas(North) West Bengal, India, Pin-743273

S1. No	Title of the Programme	Date/ No. of days	Convenor/ Teachers involved	Mode of Activity	No. of Participants
1	Drama-Bertolt Brecht- The good woman of Szechuan	25.04.2022	Paromita Dutta, Associate Professor Gobardanga Hindu College	Online	23
2	Drama- Bertolt Brecht- The good woman of Szechuan	02.05.2022	Paromita Dutta, Associate Professor Gobardanga Hindu College	Online	23
3	Drama- Bertolt Brecht- The good woman of Szechuan	09.05.2022	Paromita Dutta, Gobardanga Hindu College Associate Professor	Online	23

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Signature of the Principal Gobardanga Hindu College

> Principal Gobardánga Hindu College Khantura, North 24-Pgs

Signature of the Principal P.N.Das College

Principal
P.N. Das College

Palta, Bengal Enamel, N. 24 Fqs



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

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Website: www.pndascollege.in

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ACTIVITIES UNDER MOU

Date

P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India,

With

Gobardanga Hindu College, P.O: Khantura, 24 Parganas(North) West Bengal, India, Pin-743273

S1. No	Title of the Programme	Date/ No. of days	Resource Persons/ Teachers involved	Activity	No. of Participants
1	One day Faculty Development Programme on ICT based Teaching- Learning in Gobardanga Hindu College (MOU)	26.04.2022	Dr. Ranjit Pandit, Asst. Professor, Dept. of Computer Sc, WBSU	Offline Venue: P.N. Das College	80 number of teachers
2	One day Faculty Development Programme on Website Designing and E-module Development	10.05.2022	Dr. Sharmila De Principal, P.N. Das College Dr. Bablu Biswas, Assistant Professor. Department of Math	Offline Venue: P.N. Das College	45 teaching & Non- teaching staff from various college
3	One day Workshop on Capacity Building for Non- Teaching Staff	14.06.2022		Offline Venue: Shree Chaitanya Mahavidyalay	30 (Thirty NTS

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Signature of the Principal Gobardanga Hindu College

Gobardanga Hindu College Khantura, North 24-Pgs Signature of the Principal

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P.N.Das College

Principal P.N. Das College

Palta, Bengal Enamel, N. 24 Fqs



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

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ACTIVITIES UNDER MOU

Teacher exchange Programme
Dept. of Mathematics,
P.N.Das College
Santinagar, Palta, Kolkata- 743122,
West Bengal, India,
With

Gobardanga Hindu College, P.O: Khantura, 24 Parganas(North) West Bengal, India, Pin-743273

S1. No	Title of the Programme	Date/ No. of days	Teachers involved	Mode of Activity	No. of Participants
1	An Overview on Riemannian Integration (Semester-IV)	10.03.2023	Dr. Bablu Biswas, Assistant Professor	Offline Venue: Gobardanga Hindu College	12
2	Logic and sets (Semester-IV)	14.03.2023	Dr. Debjani Chakraborty, Assistant Professor	Online	10
3	Logic and sets (Semester-IV)	15.03.2023	Dr. Shakti Pada Barik, Associate Professor	Online	8

Signature of the Principal Gobardanga Hindu College

Principal
Gobardangs Hindu College
Khantura, North 24-Pgs

Signature of the Principal P.N.Das College

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Principal
P.N. Das College
Palta, Bengal Enamel, N.24 Fgs.



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

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Website: www.pndascollege.in

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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Bijøykrishna Girls' College 5/3, Mahatma Gandhi Road, Kadam Tala, Howrah, PIN-711101, West Bengal, India

S1.	Name of the	Date/ No. of days	Resource Persons	Mode of	No. of
No	Programme		involved	Activity	Participants
1	Seminar on Cyber Security	13.01.2021	Mr. Sivamani Sangaranarayanan, Head, Network & Security Division, P.C Solutions	Online	111 students & staff

Signature of the Trinkiple Bijøykrishna Girl College

Signature of the Principal

P.N.Das College

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Fgs



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

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Website: www.pndascollege.in

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Ref.	Date
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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Hulladek Recycling Pvivate Limited 4, D.L Khan Road, Kolkata, West Bengal, Pin-70025

SI. No	Name of the Programme	Date/ No. of days	Resource Persons involved/Organisation	Activity	No. of Particip ants
1	E- Waste Management	19.08.2021	Hulladek Recyling Pvt. Ltd	E-Waste Collection	
2	Awareness Campaign on E-waste Management	17.03.2022	Sri Sourab Shah, Resourae Person , Hulladek Recyling Pvt. Ltd	Seminar on Arareness on E-waste Management organised by P.N Das College Auditorium	39
3	E- Waste Management	26.03.2022	Hulladek Recyling Pvt. Ltd	E-Waste Collection	****

Signature of the Principal P.N. Das College

Principal
P.N. Das College
Palta Bengal Enumet N 34 Pos



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Website: www.pndascollege.in

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ACTIVITIES UNDER MOU

P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Dinabandhu Mahavidyalaya Bangaon, PIN-743235,

West Bengal, India							
S1 No	Name of the Programme	Date/ No. of days	Resource Persons involved	Mode of Activity	No. of Particip ants		
1	Seminar on IPR	20.7.2019	Dr (CA) Satyajit Dhar, Professor, University of Kalyani. Dr. Agnidipta Tarafder, Asst. Professor, West Bengal National University of Juridical Sciences Sri Sujoy Sarkar, Dy. Controller of Patents & designs, Patent office, Kolkata	Offine Venue: P.N. Das College	45		
. 2	State level Workshop on ICT	6.6.2020, 8.6.2020, 9.6.2020	Sri Debasish Barman Sri Suman Ranjan Bandyopadhyay Dr. Bablu Biswas Dr. Sudip Mukhapadhyay	Online	185 College teachers and research scholars		
1	DINABANDHI) Bongson	WAHAVIDYALAYA	Sri Prasenjit Pramanik Dr. Suchismita Majumder	Print P.N. Das	College N. M.		

Palia, Bengal Enamel, N. 84 Pge



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)
Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com
Website: www.pndascollege.in

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3	One day Faculty Development Programme on ICT based Teaching- Learning in Gobardanga Hindu	26.4.2022	Dr. Ranjit Pandit, Asst. Professor, Dept. of Computer Sc. WBSU	Offline: Gobarda nga Hindu College	80 number of teachers
4	College (MOU) One day Faculty Development Programme on Website Designing and E-module Development	10.5.2022	Dr. Sharmila De Principal, P.N. Das College Dr. Bablu Biswas, Assistant Professor, Department of Math	Offline Venue: P.N. Das College	45 teaching & Non- teaching staff from various college
5	One day Workshop on Capacity Building for Non-Teaching Staff	14.6.2022	Atanu Giri, Office Staff, P.N Das College	Offline: Venue: Sree Chaitany a Mahavid yalaya	30 (Thirty)N TS

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Signature of the Principal Principal / Secretary
Dinabandhu Mahavidyala Bangaon, 24 Pgs(N)

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Signature of the Principal P.N.Das College

Principal P.N. Das College

Palta, Bengal Enamel, N. 24 Fgs



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1326, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

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ACTIVITIES UNDER MOU

Teacher Exchange Programme
Dept. of Mathematics,
P.N.Das College
Santinagar, Palta, Kolkata- 743122,
West Bengal, India,
With

Dinabandhu Mahavidyalaya Bangaon, PIN-743235, West Bengal, India

S1. No	Name of the Programme	Date/ No. of days	Teachers involved	Mode of Activity	No. of Particip ants
1	An Overview on Riemannian Integration (Semester-IV)	04.04.2023	Dr. Bablu Biswas, Assistant Professor	Online	12
2	Group Theory (Semester-IV Mathematics & Sem-II Commerce)	07.04.2023	Dr. Biswajit Ghosh, Principal, Dinabandhu Mahavidyalaya	Online	11
3	Riemannian Integration (Semester-IV)	14.04.2023	Dr. Bablu Biswas, Assistant Professor	Online	

Signature of the Principal

Dinabandhu Mahavidyalaya Principal / Secretary Principal / Secretary DINABANDHU MAHAVIDYALAYA DINABANDHU MAHAVIDYALAYA Signature of the Principal P.N.Das College

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Pgs

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P. N. DAS COLLEGE

Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1326, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

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Date

ACTIVITIES UNDER MOU
P.N.Das College
Santinagar, Palta, Kolkata- 743122,
West Bengal, India,
With

Sree Chaitanya Mahavidyalaya Prafullanagar, Habra, PIN-743268,

		West	Bengal, India		
SI. No	Name of the Programme	Date/ No. of days	Resource Persons/Teachers involved	Mode of Activity	No. of Participants
I	One day Faculty Development Programme on ICT based Teaching- Learning in Gobardanga Hindu College (MOU)	26.04.20 22	Dr. Ranjit Pandit, Asst. Professor, Dept. of Computer Sc, WBSU	Offline Venue: Gobardan ga Hindu College	80 teachers
2	One day Faculty Development Programme on Website Designing and E-module Development	10.05.20	Dr. Sharmila De Principal, P.N. Das College Dr. Bablu Biswas, Assistant Professor, Department of Mathematics	Offline Venue: P.N Das College	45 teaching & non-teaching staff from various college
3	One day Workshop on Capacity Building for Non-Teaching Staff	14.06.20	Mr. Shibananda Mridha, Librarian, Sree Chaitanya Mahavidyalaya, Atanu Giri, Office Staff, P.N Das College Dr Pulakesh Sen, Coordinator, IQAC, Sree Chaitanya Mahavidyalaya	Offline Venue: Shree Chaitanya Mahavidy alaya	24 Non-teaching staff from Sree Chaitanya Mahavidyalaya, P. N. Das Cotlege, Gobordanga Hindu College and Dinabandhu Mahavidyalaya

Signature of the Principal Sree Chaitanya Mahavidyalaya

Principal Sree Chaitanya Mahavidyalaya Habra-Prafullangar, 24 Pgs. (N) Signature of the Principal

P.N.Das College

P.N. Das College Palle, Bengel Enamel, N. 24 Pgs



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)
Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com
Website: www.pndascollege.in

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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India,

With

Sir Gurudas Mahavidyalaya Murari Pukur, Ultadanga, Kolkata-700067, West Bengal, India

S1.	Name of the Programme	Date/ No. of	Resource Persons	Mode of	No. of
No		days	involved	Activity	Participants
1	State level Workshop on ICT	6.06.2020, 8.06.2020, 9.06.2020	Sri Debasish Barman Sri Suman Ranjan Bandyopadhyay Dr. Bablu Biswas Dr. Sudip Mukhapadhyay Sri Prasenjit Pramanik Dr. Suchismita Majumder	Online	185 College teachers and research scholars

Signature of the Principal \
Sir Gurudas Mahavidyalaya

Principal
Sir Gurudas Mahavidyalaya
Kolkata-700087

Signature of the Principal

P.N.Das College Principal

P.N. Das College

Palta, Bengal Enamel, N. 24 Pgs.



Santinagar, Palta, P.O.; Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.) Phone : (033) 2592 1327, Fax : (033) 2592 1326, e-mail : pndc.principal11@gmail.com Website: www.pndascollege.in

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Ref: Date	
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ACTIVITIES UNDER MOU Teacher-Exchange Programme Departments of English P.N. Das College, Palta

Sir Gurudas Mahavidyalaya, Kolkata 2021-22 & 2022-23

SI.	Topic	Date(s)	Teachers Involved	Mode of Activity	No. of Participants	Duration	Semester
1	Partition Literature: A Historical Overview	09 03 2022	Prof Mrittika Malakar SACT-II P.N. Das College	Offline Venue Sir Gurudas Mahavidyalaya	20	2 Hours	Sem 6
2	The Postcolonial Walcott	30.04.2022	Dr. Prasanta Ghoshal	Offline Venue P.N. Das College	15	1 Hour	Sem 6
3	'A Far Cry from Africa' An Overview	05 05 2022	Dr Prasanta Ghoshal	Offine Venue P.N. Das College	16	1 Hour	Sem 6
4	Social & Intellectual Background of Romanticism with Special Reference to Blake	21.03.2023	Prof. Mrittika Malakar, SACT-II, P.N. Das College	Offline Venue Sir Gurudas Mahavidyalaya	53	1 Hour	Sem 4
5	Tonight I Can Write': An Introduction	21.03.2023	Prof. Mrittika Malakar, SACT-II, P.N. Das College	Offline Venue Sir Gurudas Mahavidyalaya	39	1 Hour	Sem 6
6	'A Far Cry from Africa': An Overview	10 05 2023	Dr Prasanta Ghoshal	Offline Venue P N Das College	16	2 Hours	Sem 6

Koikata-700067

Principal P.N. Das College

Paire, Bengal Enamel, N. 24 Pos



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

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ACTIVITIES UNDER MOU
Teacher exchange Programme
Dept. of Philosophy,
P.N.Das College
Santinagar, Palta, Kolkata- 743122.
West Bengal, India,
With

New Alipore College, New Alipore, Kolkata-700053 West Bengal, India

S1. No	Name of the Topic	Date/ No. of days	Teachers involved	Mode of Activity	No. of Participa nts
1	Western Culture and Modern Thinker: Vivekananda	25.05.2022	Prof Dipa Chakraborty, Associate Professor P.N.Das College	Offline Venue, New Alipore College	25
2	Social Change: Marxist view and Gandhian view	22.06.2022	Prof Dipa Chakraborty, Associate Professor P.N.Das College	Otfline Venue: New Alipore College	26

Signature of the Principal New Alipore College

New Alipore College Block-I, New Alipore Kolkata 700 053 Kolkata P 700 053 (3)

Signature of the Principal P.N.Das College

P.N. Das College Palta, Bengal Enamel, N. 24 Fgs



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

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ACTIVITIES UNDER MOU

Teacher exchange Programme
Dept. of History,
P.N.Das College
Santinagar, Palta, Kolkata- 743122,
West Bengal, India,
With
New Alipore College,
New Alipore, Kolkata-700053
West Bengal, India

S1. No	Name of the Topic	Date/ No. of days	Teachers involved	Mode of Activity	No. of Participa nts
1	Religion and Culture in Medieval Europe	25.05.2022	Prof Sanjib Kumar Dhar, Associate Professor	Offline Venue: New Alipore College	35
2	Religion and Culture in Medieval Europe	22.06.2022	Prof Sanjib Kumar Dhar, Associate Professor	Offline Venue: New Alipore College	38

Signature of the Principal New Alipore Collegencipal

New Alipore College Block-I, New Alipore Kolkata - 700 053

Signature of the Principal

P.N.Das College

P.N. Das College

Palta Bengal Enamei, N 24 1 qs.



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)
Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

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ACTIVITIES UNDER MOU Teacher exchange Programme

Dept. of Education, P.N.Das College Santinagar, Palta, Kolkata- 743122,

West Bengal, India, With

New Alipore College, New Alipore, Kolkata-700053 West Bengal, India

S1. No	Name of the Topic	Date/ No. of days	Teachers involved	Mode of Activity	No. of Participa nts
1	Education in India during Ancient & Mediaeval Period	07.04.2022	Prof. Kaushik Das, Prof Debosree Bhattacharya (Das) Prof .Sangita Saha	Offline Venue: P.N Das College	41
2	Education in India during Ancient & Mediaeval Period	13.05.2022	Prof Debosree Bhattacharya (Das) Prof .Sangita Saha	Offline Venue: P.N Das College	29

Signature of the Principal New Alipore Collegecipal

New Alipore College Block-I, New Alipore Ko!kata 700 053



Signature of the Principal

P.N.Das College

Principal P.N. Das Colleg-

Palta, Bengal Enamel, N 34 Fqs.



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

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ACTIVITIES UNDER MOU

Central Library
P.N.Das College
Santinagar, Palta, Kolkata- 743122,
West Bengal, India,
With

New Alipore College, New Alipore, Kolkata-700053 West Bengal, India Session: 2021-22

S1.	Name of the Activity	Date/ No. of	Teachers/staff	Mode of	No. of
No		days	involved	Activity	Participants
1	Mutual interactions and suggestions for the development of Libraries of both colleges	14.06.2022	Sri Soumya Kanta Sarkar	Offline (Venue: P.N. Das College)	41

Signature of the Principal New Alipore College

Principal New Alipora College

Block-I, N. w Alipore Kolkata 700 053 Kolkata 700 053

Signature of the Principal

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P.N.Das College

Principal P.N. Das College

Palta, Bengal Enamel, N. 34 Fqs



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

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Website: www.pndascollege.in

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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India,

> In collaboration with New Alipore College, New Alipore, Kolkata-700053 West Bengal, India

S1.	Name of the Activity	Date/ No. of	Activity	No. of Participants
No 1	Incubation Centre Exhibition and sale of art work, jewellery, cakes and chocolates by the students of P.N. Das College.	20.08.2022	Offline (Venue: P.N. Das College)	

Signature of the Principal New Alipore College

Principal
New Alipore College
Block-I, New Alipore
Kolksta 700 053

Kolkata F 700 053 F Signature of the Principal P.N.Das College

Principal
P.N. Das College
Palta, Bengal Enamel, N 24 For



Bantinager, Palta, P.O.: Bengal Enamel, North 24 Perganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

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Ref.:	Date

To

The Principal

New Allpore College

New Alipore, Kolkata

Sir,

This is to certify that Sri Soumya Kanta Sarkar, Library Clerk, New Alipore College visited the Central Library of P.N. Das College, Palta, today i.e. 14th June 2022 as part of an exchange program for mutual interaction and suggestions for the development of libraries of both the colleges.

Thank You

With kind regards

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Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.) Phone: (033) 2592 1327, Fax: (033) 2592 1327, e-mail: pndc.principal11@gmail.com Website: www.pndascollege.in

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Ref:	Date
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ACTIVITIES UNDER MOU

Teacher exchange Programme Dept. of Physical Education, P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Naba Barrackpur Prafulla Chandra Mahavidyalaya, P.O: New Barrackpore, Dist: 24 Pgs(N), Kolkata-700131 West Bengal, India

S1. No	Name of the Topic	Date/ No. of days	Teachers involved	Mode of activity	No. of Partici pants
1	Procedure of drawing tournament fixture (2 nd Semester)	21.04.2022	DR. AJIT DAS	Offline Venue Naba Barrackpur Pratulta Chandra Mahavidyalaya	20
2	Safety Education at Home, College, Play-ground and Streets (4th Semester)	21.04.2022	DR. AJIT DAS	Do	12
3	Motivation – Meaning, definition, type and importance of Motivation in Physical Education and Sports (6 th Semester)	21.04.2022	DR. AJIT DAS	Do	15
4	Method of organizing Annual Athletic Meet (2*d Semester)	28.04.2022	DR. AJIT DAS	Do	17
5	Postural deformities – causes and corrective exercise of Kyphosis, Lordosis, Scoliosis and Knock Knees (4th Semester)	28.04.2022	DR. AJIT DAS	Do	19
6	Stress - Meaning, definition and types of Stress, Causes of Stress, Effect of Stress on Sports Performance (6th Semester)	28.04.2022	DR. AJIT DAS	Do	18
7	Method of calculation of standard Athletic Track and Field marking (2 nd Semester)	05.05.2022	DR. AJIT DAS	Do	22
8	Concept of test, measurement & evaluation and Critieria of good test (4th Semester)	05.05.2022	DR. AJIT DAS	Do	-20
9	Management of Stress and Anxiety through physical activity and sports. (6th Semester)	05.05.2022	DR. AJIT DAS	Do	16

NABA BARRACKPUR PRAFULLA CHANDRA MAHAVIDYALAYA Signature of the Principles Barrackpur

Naba Barrackpur Prafulla Chandra College

Signature of the Principal

Palia Bengal Enamel, N 24 Fig.



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganae, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1326, e-mail: pridc principal11@gmail.com

Website: www.pridascollege.in

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ACTIVITIES UNDER MOU

P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Hiranyagarbhaya Yogic & Vedic Institute (HYVI) Jadavpur, Kolkata-700032 West Bengal

S1.	Name of the	Date/ No.	Resource Person	Mode of	No. of
No	Programme	of days	involved	Activity	Participants
1	Awareness Programme and celebration of International Day of Yoga	21.06.2022	Bidisha Dey, District Coordinator, North 24 parganas, HYVI	Online	54 Teaching, Non teaching Staff and students of the College

Hiranyagarbhaya Yogic& Vedic Institute

BIDISHA DEY

Yoga National Champion, Yoga Post Graduate Kalyani University , Yoga Dist. Judge Volinteer Ayush (Govt. Of India) Physical Therapist Signature of the Principal

P.N.Das College Principal

P.N. Das College

Palta, Bengal Enamel, N. 24 Pcs



Santineger, Petta, P.O.: Bengal Enemel, North 24 Perganes, Pin - 743122 (W.B.)
Phone: (033) 2582 1327, Fax: (033) 2592 1326, e-mail: pndc.principal11@gmail.com
Website: www.pndaecollege.in

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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

West Bengal Nanbudo Association -Karatye-Do School Rahara Saradapally, Kolkata-700118 West Bengal, India

S1. No	Name of the Programme	Date/ No. of days	Resource Persons Involved	Mode of Activity	No. of Participants
1	Workshop on Self-Defence	06.03. 2020	Shihan Anil Kumar Ram President and Chief Examiner, USKA, West Bengal	Offline Venue: P.N Das College	16 teachers and 60 students
2	Celebration of International Women's Day	08.03. 2022	Prof. Kakali Sen Banerjee Associate Professor, Convenor, Women Cell Dr. Madhuchhanda Lahiri Co-ordinator, IQAC Dr. Bablu Biswas Member, IQAC Shihan Anil Kumar Ram Karate Coach Sujit De Karate Coach	Offline Venue: P.N Das College	61 Students

General Secretary
Test Bongal Numberto Association
Signature of the General Secretary

Signature of the General Secretary West Bengal Nanbudo Association Signature of the Principal

Signature of the Principal P.N.Das College

P.N. Las Cullege Pala, Sengai Enamel N. 24 Pgs



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1326, e-mail: pndc.principal11@gmail.com
Website: www.pndascollege.in

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ACTIVITIES UNDER MOU

P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Rishi Bankim Chandra College for Women Naihati, North 24 Parganas, West Bengal-743165, India

S1. No	Name of the Programme	Date/ No. of days	Resource Persons/Teachers involved	Mode of Activity	No. of Participant s
1	One Day State Level Online Webinar on "COVID 19 impact on the Teaching Learning process"	22.05. 2020	Dr. Ajit Mondal, Assistant Professor, Department of Education, West Bengal State University	Online	80 teachers of different colleges

Signature of the Principal

Rishi Bankim Chandra College for Women

Principal 3.C. College For Women Issihati, North 24 Parganas Signature of the Principal P.N.Das College

P.N. Das College Palta, Bengal Enamel, N. 24 Pgs



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.) Phone : (033) 2592 1327, Fax : (033) 2592 1327, e-mail : pndc.principal11@gmail.com Website: www.pndascollege.in

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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

MURALIDHAR GIRLS' COLLEGE

14,Gariahat Road,Golpark, Kolkata-700029, India

S1. No	Name of the Programme	Date/ No. of days	Resource Persons involved	Mode of Activity	No. of Participa nts
1	Seminar on Cyber Security	13.01. 2021	Mr. Sivamani Sangaranarayanan, Head, Network & Security Division, P.C.Solutions	Online	111 students & staff
2	One-day Seminar on Preparing for Assessment and Accreditation under Revised Guidelines	12.05. 2021	Dr Manas Baidya, Principal, Malda College Prof Anamika Roy, Asst Prof, English, Malda College	Online	107 students & staff

Signature of the Principal

Kinjallin

Muralidhar Girls' College

Principal Muralidhar Girls' College Signature of the Principal

P.N.Das College

Principal P.N. Das College

Palta, Bengal Enamel, N. 24 Pgs.

Phone No: (033) 2544-4520 / 2564-5148 / 2544-2632

2544-0932 (N.S.O.U.) Fax: 033-2544-4520

Hiralal Mazumdar Memorial College For Women

DAKSHINESWAR • KOLKATA - 700 035 Re- Accredited by NAAC with B++ GRADE

E-MAIL: hmmcw35@gmail.com / WEBSITE: www.hmmcollege.ac.in

Ref.No.....

Date 29 12 2012



TO WHOM IT MAY CONCERN

As a part of the collaborative endeavour of three colleges, namely Hiralal Mazumdar Memorial College for Women, P.N. Das College and New Alipore College, a three days' Staff Development Programme was organized from 27.12.2022 to 29.12.2022 on Data Management and SSR preparation for NAAC

The staff members of three colleges 10.00 coordinators, NAAC coordinators, senior faculties of three colleges and some connect experts were present on those days.

Principals of the three colleges greeted all the staff and dignitaries. The participants were interactive, fruitfully shared knowledge and experience and gave positive feedback.

They expressed their willingness to attend such workshops in the near future for further enrichment.

Dr. Soma Ghosh

Principal

H.M.M College for Women Principal

ralal Mazumdar Memorial College For Women

Daloshineswar, Kolkata - 700 035

Dr. Prof. Sharmila De Principal

P.N.Das College

Principal P.N. Das College Santinagar, Palts 24 Pgns (N), Pin:-743122

29.12.2022 Dr. Jaydeep Sarangi

Principal

New Alipore College

Dr. Javdeep Sarangi

Princip 4 New milege

Kolkada-700053.

Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

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Website: www.pndascollege.in

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ACTIVITIES UNDER MOU Teacher exchange Programme Dept. of Economics, P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Hiralal Mazumdar Memorial College for Women, Dakshineswar, Kolkata-700035 West Bengal, India

S1. No	Title of the Programme	Date/ No. of days	Teachers involved	Mode of activity	No. of Participants
I	Simple Keynesian Model	02.04.2022	PRIYA BISWAS	Offline Venue: Hiralal Mazumder College	50
2	Credit Creation of Commercial Bank	04.04.2022	DR. SONALI MUKHERJEE	Offline Venue: P.N Das College	20
3	Commercial Bank	09.04.2022	PRIYA BISWAS	Offline Venue: Hiralal Mazumder College	45
4	Inflationary Gap	11.04.2022	DR. SONALI MUKHERJEE	Offline Venue: P.N Das College	22

Signature of the Principal

Hiralal Mazumdar Memorial College

for Women

Principal
Hiratal Mazumdar Memorial College
For Women
Plantage War, Kolkate-700 035

Signature of the Principal

25/4/2023

P.N.Das College

Principal
P.N. Das College
Palia, Bengal Framet N 34



Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)
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Website: www.pndascollege.in

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ACTIVITIES UNDER MOU Teacher exchange Programme Dept. of Mathematics, P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Hiralal Mazumdar Memorial College for Women, Dakshineswar, Kolkata-700035 West Bengal, India

S1. No	Title of the Programme	Date/ No. of days	Teachers involved	Mode of activity	No. of Participants
1	Lagrange's Theorem (Semester-IV)	22.06.2022	Dr. Lipika Mullick, Associate Professor	Offline Venue: P.N. Das College	4
2	The theory of Complex Methods (Semester-IV)	22.06.2022	Dr. Lipika Mullick, Associate Professor	Offline Venue: P.N. Das College	4
3	Duality Theory (Semester-VI)	30.06.2022	Dr. Lipika Mullick, Associate Professor	Offline Venue: P.N. Das College	4
4	Sequence Functions (Semester-II)	20.10.2022	Dr. Bablu Biswas, Assistant Professor	Offline Venue:Hiralal Mazumder College	7

Signature of the Principal

Hiralal Mazumdar Memorial College

for Women

Principal
Hiralal Mazumdar Memorial College
For Women
Dekshinerwar, Kolkata-700 035

Signature of the Principal P.N.Das College

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Santinagar, Palta, P.O.: Bengal Enamel, North 24 Parganas, Pin - 743122 (W.B.)

Phone: (033) 2592 1327, Fax: (033) 2592 1326, e-mail: pndc.principal11@gmail.com

Website: www.pndascollege.in

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MOU Activities
Teacher Exchange Programme
Dept. of Chemistry
P.N.Das College
Santinagar, Palta, Kolkata- 743122
West Bengal, India

Hiralal Mazumdar Memorial College for Women Dakshineswar, Kolkata-700035

with

West Bengal, India

		VV CS	bengai, india		
SI. No.	Topic	Date/No. of days	Teachers involved	Mode	No. of Participants/ Sem
1.	VSEPR and Hybridization. Chemical Analysis (Two classes)	14.6.2022	Partha pratim Bhantacharya	Offline Venue: Hiralal Mazumdar Memorial College for Women	(SEM-II)/05(SEM IV)
2.	MO and LCAO Environmental chemistry (Two classes)	1606.202	Partha pratim Bhattacharya	Do	O2(SEM II)/05(SEM IV)
3.	Study of p-block elements. Phase equilibria (Two classes)	24.06.2022	Partha pratim Bhattacharya	DO	03(SEM II) 05(SEM (V)
4.	Study of p-block elements and phase equilibria (Two classes)	25.06.2022	Partha pratim Bhattacharya	Do	O3(SEM II) 05(SEM IV)
5	Kinetic theory of gases and EMF (Two classes)	27.06.2022	Partha pratim Bhattacharya	Do	SEM-II(03)/SEM IV(05)
7	Kinetic theory of gases and chemical kinetics (Two classes)	09.07.2022	Dr.Amrita Banerjee	Do	SEM II(03)

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for Women

Principal

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Dekahinseven, Kolkata-700 035

Signature of the Principal
P.N.Das College

P.N. Das College Palu, Bengal Enamel, N. 24 Fgs.



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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Hiralal Mazumdar Memorial College for Women, Dakshineswar, Kolkata-700035

West Bengal, India

West Bengal, India Mode of No. of						
S1.	Title of the	Date/ No. of days	Resource persons involved	Mode of activity	Participants	
No 1	Programme Data Management and SSR preparation for NAAC	27.12.2022 to 29.12.2022	Dr. Soma Ghosh. Principal. Hiralal Mazumdar Memorial College for Women Dr. Pradipta Mukherjee, NAAC Coordinator, Hiralal Mazumdar Memorial College for Women. Dr. Sharmila De, Principal, P.N. Das College. Dr. Jaydeep Sarangi, Principal, New Alipore College	Offline Venue: Hiralal Mazumdar Memorial College for Women	45 NTS from three colleges participated in the administrative training program	
2	National Level 7-Day Faculty Development Programme On "Preparedness For The Revised Accreditation Framework, 2022-2023"	19.09.2022 to 26.09.2022	B. S. Ponmudiraj, NAAC Advisor Dr. T.K. Ghara, State Nodal Officer, AISHE Dr. Samrat Bhattacharya, IQAC Coordinator, Scottish Church College Dr. Varbi Roy, Member IQAC, Scottish Church College Dr. Apurba Ratan Ghosh, Professor, The University of Burdwan Dr. Tilak Chatterjee, Principal, Bankim Sardar College Dr. Ruma Bhattacharya, Principal, Bijoy Krishna Girls' College, Howrah Dr. Amit De, Principal, Prabhat Kumar College, Contai Dr. Manas Baidya, Principal, Malda College, Maldah Dr. Shukla Hazra, Principal, East Calcutta Girls' College, Lake Town Dr. Sankarashish Mukherjee, WBSU	Offline Venue: 19th Sept 24th Sept. 2022: Asanna Bhawan: New Town and 26th Sept. 2022: Hiralal Mazumdar Memorial College for Women. Dakshineswar	140 teaching staff including Principals. Teachers and Librarians of different colleges of West Bengal	

Signature of the Principal Hiralal Mazumdar Memorial College

for Women Principal
Litratal Mazumdar Memorial College

Signature of the Principal

P.N. Das College

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ACTIVITIES UNDER MOU

P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Mahadevananda Mahavidyalaya S.N.Banerjee Road, Moniramopore, Kolkata-700120, West Bengal,India

S1. No	Name of the Programme	Date/ No. of days	Resource Persons involved	Mode of Activity	No. of Participant s
1	Seminar on IPR	20.7.2019	Dr (CA) Satyajit Dhar. Professor, University of Kalyani, Dr. Agnidipta Tarafder, Asst. Professor, West Bengal National University of Juridical Sciences Sri Sujoy Sarkar, Dy. Controller of Patents & designs, Patent office, Kolkata	Offline Venue: P.N. Das College	45
2	Webinar on IPR/RTI/RTP	18.5.2020	Dr. Agnidipta Tarafder. Asst. Professor, West Bengal National University of Juridical Sciences	Online	86 college teachers from different colleges of the state

Signature of the Principal

Mahadevananda Mahavidyalaya

Mahadevananda Mahavidyalaya Monirampore, Barrackpore

North 24-Parganas

Signature of the Principal

P.N.Das College Principal P.N. Das College

Palta, Bengal Enamel, N. 34 Figs.

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ACTIVITIES UNDER MoU Teacher-Exchange Programme Departments of English P.N. Das College, Palta

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Mahadevananda Mahavidyalaya, Monirampur 2021-22 & 2022-23

	Topic	Date(s)	Teachers Involved	Mode of Activity	No. of Participants	Duration	Semester
1	Marquez. An Introduction	05.03.2022	Prof. Sravasti Chattopadhyay Associate Professor, Mahadevananda Mahawdyalaya	Offline Venue P.N. Das College		2 Hours	Sem 6
2	Partition Literature Perspectives & Themes	07 03 2022	Prof. Subrata Biswas. Assistant Professor. Mahadevananda Mahavidyalaya	Offline Venue P N Das College	16	2 Hours	Sen 5
3	Tennyson's and Dante's Ulysses	12 03 2022	Prof. Suman Ranjan Bandyopadhyay, Assistant Professor P.N. Das College	Offine Venue Mahadevarianda Mahavidyalaya	18	2 Hours	Sem 4
4	Kubla Khan. An Overview	14.03.2022	Prof Kakoli Sen Banerjee, Associate Professor P N Das College		19	2 Hours	Sem 4
5	The Theatre of the Absurd	02 04 2022	Prof. Suman Ranjan Bandyopadhyay Assistant Professor, P.N. Das College	Offine Venue Mahadevananda Mahavidyalaya	20	2 Ношь	Set c
6	Decolonisation and Globalisation in Literature Social & Intellectual Background	18 04 2022	Prof. Kakoli Sen Banerjee, Associate Professor, P.N. Das College	Offine Venue Mahadevananda Mahawdyalaya	18	2 Hours	Sem c
	The Love Song of J Alfred Profrock* A Dramatic or an interior Monologue?	24 01 2023		Onine	25	2 Hours	Sain 5
	Musee Des Beaux Arts An Introdyction	27 01 2023	Prof Sravasti Chattopadhyay Associate Professor Mahadevananda Mahawdyaraya	Onine	14	2 4 4 7 j. Tr.	Sent f

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Mahadovananda Mahavidyalaya
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Montrampore, Barrackpore

P.N. Day College Palta, Bengal Enamel, N. 24 Pgs



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ACTIVITIES UNDER MOU

P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Vijaygarh Jyotish Ray College Vijoygarh, Jadavpur, Kolkata-700032 West Bengal, India

S1.	Name of the	Date/ No.	Resource Persons	Mode of	No. of
No	Programme	of days	involved	Activity	Participants
1	National Webinar on "Women Empowerment"	27.6.2020	Dr. Samapti Guha, Professor and Chair, CentreforSocialEntrepr eneurship School of Managementand Labour Studies, Tata Instituteof SocialSciences, Mumbai. And Advocate Nayan Chand Bihani, Advocate, Calcutta High Court	Online	195 teaching faculties from different colleges across state & the Country

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Signature of the Principal Vijaygarh Jyotish Ray College

Principal Vijaygarh Jyotish Ray College Kolkata-700 032 Signature of the Principal
P.N.Das College

Principal
P.N. Das College
Palia, Bengal Enamol, N.24 Fes



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ACTIVITIES UNDER MOU Teacher Exchange Programme

Department of Geography P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India,

With

Barasat College

 Kalyani Road, Barasat, North 24 Parganas, West Bengal-700126, India

S1. No	Name of the Topic	Date/ No. of days	Teachers involved	Mode of Activity	No. of Participants
1	Plate Tectonics theory process and landforms (Semester-1)	13.06. 2022	Dr. Chandan Sarkar. Assistant Professor in Geography, P.N Das College	Offline Venue: Barasat College	25 Students
2	Greenhouse effect & its importance of Ozon layer (Semester-III)	13.06. 2022	Dr. Chandan Sarkar, Assistant Professor in Geography, P.N Das College	Offline Venue: Barasat College	20 Students
3	Climatic Classification after Koppen (Semester-III)	21.06. 2022	Dr. Paramita Banerjee, Assistant Professor in Geography, Barasat College	Offline Venue: P.N.Das College	22 Students
4	Models on Landscape evaluation according to W.M Davis	21.06. 2022	Dr. Paramita Banerjee, Assistant Professor in Geography, Barasat College	Offline Venue: P.N.Das College	18 Students

Signature of the Principal

Barasat College

Signature of the Principal P.N.Das College

P.N. Das College Palte, Bengal Enamel, N. 24 Pgs



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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Malda College Rabindra Avenue, Rathbari, Malda, PIN-732101, West Bengal, India

S1.	Name of the	Date/ No.	Resource Persons/Teachers	Mode of	No. of
No	Programme	of days	involved	Activity	Participant
1	One-day Seminar on Preparing for Assessment and Accreditation under Revised Guidelines	12.05.2021	Dr Manas Baidya, Principal, Malda College Prof Anamika Roy, Asst Prof, English, Malda College	ONline	107 students & staff

Signature of the Principal Malda College

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P.N. Das College
Principal
P.N. Das College
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P.N. Das College
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ACTIVITIES UNDER MOU Teacher Exchange Programme Department of Mathematics P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With Uluberia College

Uluberia, Howrah, West Bengal, India

S1. No	Name of the Topic	Date/ No. of days	Teachers involved	Mode of Activity	No. of Participants	
2	(Semester-VI)		Dr. Anup Kumar Singha Assistant Professor Uluberia College	Online	5	
2			er map remain amgna	Online	7	
3	Sequence Functions (Semester-II)	14.04.2022	Dr. Bablu Biswas, Assistant Professor P.N Das College	Online	15	

Uluberia College

Principal ULUBERIA COLLEGE Uluberia, Howrah

Signature of the Principal P.N.Das College

Principal P.N. Das College Palta, bengal Enamel, N. 34 Pgs.



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ACTIVITIES UNDER MOU Teacher Exchange Programme Department of Geography P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Gour Mohan Sachin Mandal Mahavidyalaya Bireswarpur, South 24 Parganas, West Bengal-743336, India

S1. No	Name of the Topic	Date/ No. of days	Teachers involved	Mode of Activit y	No. of Participants
1	Concept and Classification of Hazard and Disaster (Semester-VI Hons)	14.05.2022	Dr. Chandan Sarkar, Assistant Professor in Geography, P.N Das College	Online	29
2	Regional Planning-Types, Principles and Objectives (Semester-IV Hons)	14.05.2022	Dr. Chandan Sarkar, Assistant Professor in Geography, P.N Das College	Online	32
3	Concept of Time and Space in Geography (Semester-VI Hons)	20.05.2022	Dr. Mousumi Bandyapadhyay Associate Professor Gour Mohan Sachin Mandal Mahavidyalaya	Online	15
4	Regional Disparity of India (Semester-IV Hons)	20.05.2022	Dr. Mousumi Bandyapadhyay Associate Professor Gour Mohan Sachin Mandal Mahavidyalaya	Online	22

Signature of the Principal

Gour Mohan Sachin Mandal Mahavidyalaya

Principal
G.M.S.M. Mahavidyalaya
Vill. & P.O.-Bireswarpur
Dist. - 24 Pargs (S), W.B.

Signature of the Principal P.N.Das College

P.N. Das College Patra, Bengai Enamel, N. 24 Fg.



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ACTIVITIES UNDER MOU Teacher Exchange Programme Department of History P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Gour Mohan Sachin Mandal Mahavidyalaya Bireswarpur, South 24 Parganas, West Bengal-743336, India

S1. No	Name of the Topic	Date/ No. of days	Teachers involved	Mode of Activity	No. of Participants
1	Gandhi's Rise to Power	02.05.2022	Sri Goutam Biswas, Assistant Professor in History, P.N Das College	Online	55
3	Subhas Bose and INA	02,05.2022	Smt. Ranjini Guha Associate Professor Gour Mohan Sachin Mandal Mahavidyalaya	Online	30

Signature of the Principal

Gour Mohan Sachin Mandal Mahavidyalaya

Principal
G.M.S.M. Mahavidyalaya
Vill. & P.O.-Bireswarpur
Dist. - 24 Pargs (S), W.B

Signature of the Principal P.N.Das College

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P.N. Das College Palta, Bengai Enamel, N. 241.



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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Paschim Banga Bigyan Mancha(PBBM)
Pritha Dasgupta Bhawan, Banamalipur, Barasat, North 24 Parganas
West Bengal, Pin-700126

S1. No	Name of the Programme	Date/ No. of days	Resource Persons involved	Mode of Activity	No. of Participants	
1	One- day Seminar on Science and Pandemic on College Foundation Day Programme on National Science Day 20.08. 2020 2020 203.03. 2022		Sri Saurav Chakrabarty Assistant Secretary, Paschibanga Bigyan Mancha	Online	88 students and 6 staff members	
2			2022 Member, State Committee, Paschim banga Bigyan Mancha	Offline Venue: P.N Das College		
3	Seminar on National Science Day on "Physics Research in Kolkata before independence"	28.02. 2023	Dr., Goutam Gangopadhyay Professor, Dept. of Physics, University of Calcutta and State Committee member PBBM	Offline Venue: P.N Das College	60 students and 10 staff members	

Signature of the President North 24 Parganas District Committee

Paschim Banga Bigyan Mancha

Principal P.N. Das College

Pairs, Bengal Enamel, N. 24 Pgs

Signature of the Princip

P.N.Das College

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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengel, India

West Bengal, India, With

Right Brains Technology Sanghoti Abasan(Ground Floor), Garia Main Road P.S: Narendrapur,Kolkata-700084 West Bengal, India

S1. No	Name of the Programme	Date/ No. of days	Resource Persons involved	No. of Participants
1	On the job training on "Web Designing" to the teaching and non teaching staff of the P.N. Das College	11.05.2022	Rajib Mukherjee	16 teachers and 9 Non-Teaching staff
2	On the job training on "Advance Excel" to the teaching and non Teaching staff of the College	18.05.2022	Rajib Mukherjee	18 teachers and 8 Non-Teaching staff

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Proprietor Right Brains Technology Signature of the Principal

Principal

Principal

P.N. Pas College Palta, Bengal Enamel, N. 24 Pon



BASIRHAT COLLEGE

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BASIRHAT, NORTH 24 PARGANAS, PIN-743412

Phone: 03217-228505, e-mail: info@basirhatcollege.org, website: www.basirhatcollege.org

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Date 20.06.2022

TO WHOM IT MAY CONCERN

This is to certify that the following activities have been conducted as per the MOU signed between P.N. Das College and Basirhat College on 2nd November, 2021.

SI. No	Name of the Topic	Date/ No. of days	Teachers involved	Department	No. of Participants	Mode of Activity
1	Inversion of Temperature (Semester-III Hons)	10.01.2022	Dr. Chandan Sarkar, Assistant Professor in Geography, P.N Das College	Geography	30	Online
2	Soil Profile (Semester-V Hons)		10.01.2022 Dr. Chandan Sarkar, Assistant Professor in Geography, P.N Das College	Geography	32	Online
3	Contribution of Kavi Kalidas to the Sanskrit Literature (Semester - III)	11.01.2022	Sri Santanu Kumar Singha, SACT, P.N Das College	Sanskrit	35	Online

Signature of the Principal

Basirhat College

Principal

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Signature of the Principal

P.N. Das College

Principal
P.N. Das College
Palta, Bengal Enamel, N. 24 Pgs



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Date	Name of Teacher	Department	Topic taught	Year/ Semester	Duration
29 11 2021	Mallick Energy, Enthalpy, Helmoholtz Free Energy, Gibb's Energy. Their definitions, Properties and Applications 0.12.2021 Paramita Physics Surface Films and Variation of		definitions, Properties	nergy, Enthalpy, Helmoholtz Free Semester nergy, Gibb's Energy. Their efinitions, Properties	
20.12.2021			Surface Films and Variation of Surface Tension with Temperature	3 rd Semester	2 hours
		Research Methodology in Geography: An introduction	5 th Semester	2 hours	
15.12.2021	Dr. Aditi Matilal	Geography	Defining the research problem: Necessity and techniques	5" Semester	2 hours

Signature of the Principal

Basirhat College

Principal

BASIRHAT COLLEGE

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P.N. Das College

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ACTIVITIES UNDER MOU P.N.Das College Santinagar, Palta, Kolkata- 743122, West Bengal, India, With

Global EHS Consultant 38/F, Vivekananda Road(2nd), Barrackpore, Kolkata-700123 West Bengal, India

S1. No	Name of the Programme	Date/ No. of days	Resource Persons involved	Mode of Activity	No. of Participants
1	One-day Seminar on "Environmental Audit in Higher Educational Institutions: Framework and Implementations"	29.08. 2019	Dr Tanmoy Rudra Environmental Scientist and Director, Scientific and Environmental Research Institute, Kolkata Dr Susanta Podder Plant EHS Head, Pepsico India Holdings Pvt Ltd. Howrah	Offline Venue: P.N Das College	38 Faculty members from various Colleges
2	Seminar on Environmental Awareness	30.11. 2022	Dr. Susanta Podder Adjunct Associate Professor, Lincoln University College, Malaysia	Offline Venue: P.N Das College	20 Faculty members and 30 students from the college

Signature of the Founder & Managing Partner
Global EHS Consultant

Signature of the Principal

P.N.Das College

Principal
P.N. Das College
Palta, Bengai Tranvel, N. 34 Fgs

Linkage for Research Activities

Bonny Samanta

Assistant Professor, P.N.Das College, North 24 Parganas, West Bengal, India

Rimpa Saha

Assistant Professor, Dewan Abdul Gani College, Dakshin Dinajpur, West Bengal, India

Journal of Information and Computational Science

ISSN 1548- 11

Challenges Faced By Women In Higher Education In India

Bonuy Samanta*

Assistant Professor, P.N.Das College, North 24 Parganas, West Bengal, India E-matt. bonny ramauta sepudazeollege in

Rimpa Saha

Azzizamit Profezzor, Dessan Abdul Gani College, Dakzhin Dunajpur, West Bengal, India E-mail: rought who I'm regental com-

Abstract

Education () and of the significant instruments for exercit dayologiness of any society. India has the third largest higher education system in the world, next to United States and China. The main gaverning body at the terming level is the University Grants Committation. There are approximately \$6.4 universities include State, Deemed to be University, Central Private Conversely approximately \$9000 colleges spread across the country. India is a developing country, and continuing to develop in the fleid of education. There are many challenges or problems in Judian higher education system, and also have for of appermittes to deal with this problems and make education much better. An important task of higher education to to develop human resource. Education plays an important role in empowering women. Higher education encourages and empowers women to play visal vote an social development as well as country. In case of higher aducation, women are facing personal and social problems which whithis the progress of women in higher education. Great numbers of guly especially in roral areas drapout before they reach ligher education. Before understanding their permitted some burdens are imposed on them and as a result, drop out rate increases. Wamen's empowerment can be attempthened through higher education. Higher education enables qualified women to become an tideal in society and mornates them to become a role madel for other women. This paper highlights the problems in legier education faced by nomen to belia and some suggestions to avercome these problems

Ker words. Higher Education, development, empowerment, problems

Introduction

"There is no chance of the welfare of the world unless the condition of women is improved. It is not possible for, a bird to fly on one wing"... Swami Vivekauanda

Education is required in every aspect of human life. Over time, the speed of communication has successed, and with it sechnological developments and innovations, people and society have been

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2. Rahul Nath

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INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

TWO ASTONISHING PERSONALITIES ANNE SULLIVAN AND HELEN KELLER AND THEIR HEROIC COMPANIONSHIP

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SURVIVAL CHALLENGES OF THE ELDERLY PEOPLE DERING COVID-19 PANDEMIC: EVIDENCE FROM WEST BENGAL, INDIA

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Dieng he seprendented Cold II pandonic a large proportion of elderly people, with somerbilities durates have to be pay death tall and economic health might face a definite played by the modified pace of demographic transition. The process study insternativally the fire the relative impartures of factors related to curried of olderly people residing helds and extelle although home, during COVID-19 lackdown. The Barried of clients people are initiated as Modified Survival India (II) maked using primary information in physical and nevert strikets from 200 elderly respective in North 24 Purposes (100) each residing insize and considerable specification of a security of photos and stories sharing COFFEE posterior. A comparative mental pienes of elderly in Was Borgel. India has shown that he to COND-19 persons protect and leckfron the newtral process of elder has Social and tenth) weren for eller's residing trails office home. After not the description of physical grains, secret, health grades of elderly has committed a perfectionally he to social distancing prosecul and COUNTS pendents lookdown. Effort made from MCOs and beed part severals edderly in very insufficient and honce health interactic with tomerhibien duning pendenie hat increased a let. Ameng all subgroup complains present men promote condition has the highest importance for both the wolfe and matrice also are people. The standard of lowing of dilarly drong positions; has an officed much by nonpolicibles of regularl maked notices and find sources. Ethnic level with finals could Paper with social generate and different reliabilitation program in their delicates normal He This, month highly quality has would be prolonged locations combined with becaused freezed on the in social districting protected in this age, home in the greater excess Beamiol dallogs of click his house bife sily corpor to preparating chelon with the in increasibility of healthcase proceeds fool and supplement, problem in birding pershadewitters, used distacting posters. Better secul association with hildly noted remissions, that is discretion and motion steply, grand and COVID 14 half checkup etc. under public control and made the normal process of elderly ears through COVID-13 ponlanic

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SURVIVAL CHALLENGES OF THE ELDERLY PEOPLE DURING COVID-19 PANDEMIC: EVIDENCE FROM WEST BENGAL, INDIA

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During the experimentaries ConfD14 pendance a large properties of elderly people, with asmerbilities decreases have to be pay death sail and comme; health might face a definite changes by the modeled pare of demographic mension. The present study automatically Weeke the relative importance of forces releval to surried of elderly people smiling beth and switch all age home, during CONTA 16 behalims. The Samired of all the people or inland a Modford Surrical Index (S), exclud using privacy information on physical and moved and that is from 10% olderly responding on North 14 Europeans (10% each residing but and amile of buye heavy through a structures phose call super during COVIDS. produced. A comparative period pience of elding in New York, I had a better that the to COUD-19 positions proceed and lookings the newton process of elders has district and terrally server for olderly midding inside all age home. Along with the description of physical quality, must it will quality of falloys has corrected significantly he is soil distaining protect and COLDS to product looking lifter make from Miles and local gent tensarily editedly to any smoothless and home brooks recovering with constriction during perdenic has increased what Among the subgroup correlates present men promotic condition has the highest importance for both the briefle and natural cold-laye people. The standard of learning of chiefly during products has a copied much its name makehily of regard makest source and fool storing. Eldely, lead with furth and if Ppp wit used gaterny and deliver whetheres popular to the war world The most d highly quility has could be proloned heathers comband with hereard freezons due to reckil districts; protect in all age how in the protections. The control challency of elderly has become indevolve compare to proposal, one schooling made the to tour rubbly of healthcare provided find and application politica in Midning person mentages, social deserving proceed. Best with approxima with which well mentioned due to be reason and well on age is grand and (10 pt 19 half closh per valo pelle ment will out the mont pears of eller) can date to COMD Name of

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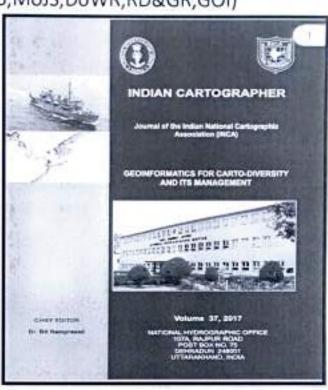
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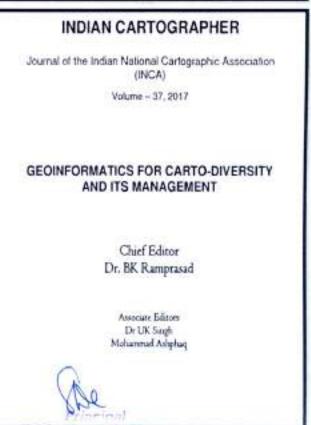
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SOME PROPERTIES OF A FUNCTION CONNECTING TO EXPONENT OF CONVERGENCE FOR DOUBLE SECURICES

D. K. GANGULY, B. BULKALI AND ALAUDDEN DAPADAR

Above: In the paper we would be seen of agreed of consequent the deally sequence and make some paperson of a fluorism resourced much a son-decreasing deaths sequence in a fluorism space.

i. Introduction

Let $A = \{a_k\}_k$ be a non-decreasing sequence of positive real numbers with $\{a_k\}_k \in \mathbb{R}^n$ and $\{a_k\}_k \in \mathbb{R}^n$ such that $\{a_k\}_k \in \mathbb{R}^n$ for each $\sigma = 0$, $\sigma < \lambda$ and $\sum_{k=1}^n a_k = 1$ for each $\sigma = 0$, $\sigma < \lambda$ and $\sum_{k=1}^n a_k = 1$ for each $\sigma = 0$.

The number $\lambda = \lambda(A)$ is called the exponent of convergence of the requires a D is represented by

$$A(A) = \inf \left\{ \pi : 0 : \sum_{i=1}^n \sigma_{ii}^{-ij} : i = \right\}$$

It is also known [1] that

Sevent authors (see [1], [1], [1], [1] interpret that under an exponent of approxymentation different points of new lin that content. Knowledge and Salar [1] explored some interesting sends on exponent of convergence of end temperature. They investigated the exponent of convergence as a real valued fraction defined on the set S of all and non-decreasing sequence $\{x_k\}_k$ of settlembers and, the purposity $x_k > y > 0$ endowed with Foreign manual defined by

$$\rho(t,r) = \sum_{i=1}^r \frac{1}{2} \frac{|t_i - t_i|}{1 + |t_i - t_i|}.$$

where is \$\langle \text{\$\rangle \chi_1\rangle}\$ are my rep element of \$\dagger\$.

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IN E. Garnetty E. Stevan and A. Bataline

Our size in this gaper is to expend the concept of exponent of convergence for double sequences of seal autobase. During the last converge, various problems connecting to the convergence and divergence of double sequences were treated by a number of mathematicians (see [6], [1], [1], [10], [10], [10]. Here first we give formalization for the exponent of convergence of double sequences which is statiogram to the cose of single sequences and then we prove some properties on exponent of convergence for the double sequences.

DEFINITION 1. [1] A double sequence $[a_{nm}]$ is used to be measuremently inversaling ideoversary if $a_{nm} \subseteq a_{pq} \mid a_{nm} \ge a_{pq}$. Notice if $[a_n,a_n] \subseteq [p,q)$ was $n \in p$ and $n \in q$ under the partial ordering $n \in Q$ on the set $N \in \mathbb{N}$, where N is the set of positive integers.

DEFINITION 2. [7] A double sequence $|a_{nn}|$ of real numbers u and converge to the number ξ of for each v > 0 these extens $(p,q) \in \mathbb{N} \times \mathbb{N}$ such that $|a_{nn} - \xi| = v$ for $(m,n) \geqslant (p,q)$ and v is written as large $a_{nn} - \xi$

DETERMINED A [4] A double sense $\sum_{n=1}^{\infty} a_{nn}$ of real numbers n and to converge to ξ in Frageleins sense of $\lim_{n \to \infty} \frac{\xi}{n}$, where $x_{nn} = \frac{\sum_{i=1}^{n} \chi_{i-1}^n a_{ij}}{\sum_{i=1}^{n} a_{ij}}$ is the partial sum of the double sense.

Let 3 denotes the set of real rost-decreasing double sequence $\{x_{n+1}\}$ with $x_{n+1} \neq 1$, and over 0 with Fraction receive defined by $\rho(x,y) = \frac{y}{ij} \frac{1}{2^{n+1} \log_2 x_{nj}}$, where $x = \{x_{nj}\}_{n \geq 1}$, $y = \{x_{nj}\}_{n \geq 1}$, we go into all 3.

It is clear that the set X of all seal double sequences with Frechet metric is a complete metric space. The convergence is this space is taken as co-ordinate wise convergence in Franchism sense.

In the following we emobilish some properties of the space (\mathcal{Z},ρ)

THEOREM 1. If S_1 is the collection of all non-decreasing sequences, $\{x_{nm}\}$ of that handwest diverging to $x_n = x_n$ in $x_{n1} = 1$ then the space (S_1, p) is not a complete metric space.

Proof We consider a sequence $\{v^{(i)}\}_{i=1}^{m}$ of element from S_i where $v^{(i)} = [a_{im}^{(i)}]_{m=i+1}$ and

$$a \xrightarrow{|a|} \begin{cases} 1 + \frac{a}{2}; & \text{when } (m, n) = (3, 1) \\ m + n; & \text{otherwise} \end{cases}$$

If $\{\pi^{(i)}\}_{i=1}^{n}$ converges to $\pi=\{a_{nn}\}$ then $a_{11}=1$, since the space deals with the galax twice convergence. Clearly, $\pi^{(i)}(1)$ and convergence (1)



The first $n\in \mathbb{N}$ T is the contractor of all non-decisioning arguments $\{x_{n,i}\}$ of and non-decisioning as i=n with $x_{i,i}=1$, then T is non-decisioning to i=n.

From Alexander II is a closted values of L is a sufficient to grow that the energie trees of T as 1 is decay in (

Let $a = \{a_{p,q}\} \in \mathcal{I}$. We consider an agent bold $d(a;h) : \mathcal{J} = 0$ with process of a and

 $\mathbb{E}[x_{m}] = 0$ when $x \in \mathbb{R}$. $\mathbb{F}[x_{m}(t) \in \mathbb{F}[x_{m}(t)] = 0]$ and the second is proved. Let $x_{m} = 1$. Since $[x_{m}]$ is east decreasing and develope in x_{m} then derive and its province in region t and t. The which t = 0 is then such that $x_{m} = 1$.

Director choose a mail member in . If much that the . A Agent for Tree of and it which the interpretation $\frac{1}{2}$ is $\frac{1}{2}$ and then the consider a sequence $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ and $\frac{1}{2}$ then

$$R_{\rm min} = \begin{cases} 1 - \eta_0 & \text{in term.} \ \mathcal{J}(0, \theta) = (0, f) \\ \alpha_{\rm min} & \text{otherwise} \end{cases}$$

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Then, clearly $\theta \in (1-\beta)$, $\theta \in (0,\alpha)$ and thus $0 = \theta$ is denot as 0 = 0 becomes θ , and then θ is

TREDBEIG F. The ser LL p. is a complete matrix space and has the condination of

Printy. The provide the discovers we show that the set X of a perfect selection (X,p) . Let $|x|^2 |_{1,1}$ be an expense of 1 when $x^2 = (\lim_{n \to \infty} \min x) - 1 = 0$. $\mathbb{C} := x^2 + 1 - \lim_{n \to \infty} \sup \min \lim_{n \to \infty} x \ge 1$ bounds below here the position regions in Programs were for double sequence with respect to the Fraction

We take any power $y = \{x_{n+1} \mid i \leq l\}$ We have to find a sequence $\{x^{(i)}\}_{i \geq l}$ from 3carls than loss of

The resources the sequence (all lim) to follows.

$$t_{max} = \begin{cases} t_{max} & \text{for } (m, m) \in (0, 1) \\ t_{max} + 1, & \text{otherwise} \end{cases}$$

Hits stress that him it.

Hence β to a perfect set of (X,β) and then β that the earthority of emporal corresponds the space (X,β) is complete to any continuity of concernate

4. Exponent of course gence

Let $A = \{ p_{m+1}, p_{m-1} > 1 \text{ be a non-decreasing shock in sequence of real combess. If$ If then the convergence of the sense; \(\frac{1}{2}\), \(\sigma_{\text{min}}^{\text{d}}\) anyther the convergence of the sense; \$ 10.0 This single observation leads us in define the engineer of non-ergence A.(A.) of the double requestor is no follows:

$$A + A + - \inf \left\{ H - 0 - \frac{1}{n-1} \cdot A_{n+1}^{-\beta} - \cdots \right\}$$

Then A is a function from I to 0 = | The following sensit gives an abstractive from for calculation of the engineers of convergence of double sequences under certain accompanies and is can be resulted wa-

REPORT 1. If $\{a_{nr}\}$, $a_{nr} \ge 1$ he a non-determining double sequence of real mass. Let, then the explored of convergence of the double sequence $\{a_{nr}\}$ is equal to the norther lien mp fried

We now ensure some regalogical properties of the fraction it

THEOREM 4. For any non-negative real number z there exists some $z\in\mathbb{Z}$ such that $\lambda(z)=z$.

Freef Court Lear & We choose a [ran] where take them.

$$X(x) = \limsup_{n \to \infty} \frac{\log(nn)}{\log |nn|^{2n}} = \limsup_{n \to \infty} \frac{1}{nn} = 0$$

Cate 2. Let r>0. Then, there exists a parameter sategor θ such that $(1+r)\theta = \theta(1)^{\frac{1}{2}} \ge 1$ for polarize unregers or such θ . Here, we change $\theta = \|\theta_{mn}\|$, where θ_{mn}

COROLLARY 1 The fitteens A 5 - 0 - does not belong to Burn view one

Proof. It is well known that the set of pounts of discontinuous of a function belong ong to the Base class come is a set of East company (\$1.7). As the function A as weally discontinuous on I et can aut belong to finite clein new

THEOREM 5. For each real number d, the sets $A^d = \{x \in S | A(x) \in d\}$ and $A_{\alpha} = \{ x \in \mathbb{Z} | A(x) > d \}$ belong to the chiral sublinive Borel class.

Proof. Fair we unwantgate for the set A"

If $\phi \in \mathcal{G}$ then should $A' = \emptyset$ could see each the above social in true.

Let d>0. Then, we have $A^d=\left\{a\in \mathbb{Z}: A(a)=d\right\}$. So, there exists or such 0 0 of farwhall

$$\begin{split} A^{\mathcal{S}} &= \left\{ \mathbf{z} \in \mathbb{Z} : \underbrace{\widehat{\Sigma}}_{i=1}^{\infty} \underbrace{\widehat{\Sigma}}_{i=1}^{\infty} \mathbf{c}_{in}^{\mathcal{S}} < - \right\} \\ &= \underbrace{\widehat{U}}_{i=1}^{\infty} \left\{ \mathbf{z} : \underbrace{\widehat{\Sigma}}_{i=1}^{\infty} \underbrace{\widehat{\Sigma}}_{i=1}^{\infty} \mathbf{c}_{in}^{-(i-\frac{1}{2})} < - \right\}, \end{split}$$

where λ_k is the resulten position temper for which $d=d-\frac{1}{2}>0$, for all $d>a_k$

We set
$$M_1 = \left\{ s \in \mathbb{Z} : \prod_{i=1}^{n} \sum_{j=1}^{n} a_{ij}^{-j} = 1 = \right\}$$
, where $G = d - \frac{1}{2}$, $(s = s_0, k_0 - 1)$

Since
$$\sum_{i=1}^n \sum_{j=1}^n a_j^{-j} = \cdots = \text{for } i! \quad d-\frac{1}{2} \quad (k-k_0,\,k_0+1,\,k_0+2,\,\dots) \quad \text{then by}$$

Drule is theorem for numer gence of double series of real record, for each positive integer I depression be at # N and dur

$$\sum_{j=2,1,2,\ldots}\sum_{k=1}^{\infty}a_{ij}^{-jk}\leqslant \frac{1}{2}\cdot \operatorname{Re} I=1,2,3,\ldots.$$

where
$$H_{\text{bing}} = \left\{ s \in \mathcal{I} : \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sigma_{ij}^{j} \in \frac{1}{2} \right\}$$

For fixed 8 ℓ m,n.p. we give that $H_{\rm integ}$ to a closed by

The follows attended their pour was envergence of double sequence in Pringheur wice

We take a requesce $\{s^{(i)}\}_{i=1}^n$ at H_{takep} where $s^{(i)} = \{s_{ij}^{(i)}\}_{i \geq 0}$ in 1.2 and entitle number of Principal

D. E. GAVOTOV R. BIRRAS AND A. Batadus.

Then, $\lim_{n \to \infty} (a_n/n)^{-n} = a_{11}^{-n}$, for all $(a_n/n) \le N + N$.

Hence $a \in H_{\mathrm{Many}}$. Consequently, each of the sets H_{Nimp} is closed.

So, a follows that
$$A' = \{a \in A : \tilde{A}(z) < d\} = \bigcap_{i=1}^{n} \bigcup_{j=1}^{n} \bigcap_{i=1}^{n} \mathcal{H}_{analy} = m. F_{analy}$$

set in 5 and therefore, A" belongs to the third additive Borel class.

We now investigate the set A_{ω}

If $\alpha = 0$, then $A_{\alpha} = 1$ and the result is ground.

Let $d \geq 0$, then there exists a positive asseger k such that

$$A_{\mathbf{d}} = \left\{ \mathbf{s} \in \mathbb{Z} : \tilde{A}(\mathbf{s}) > \mathbf{d} \right\} = \bigcup_{k=1}^{m} \left\{ \mathbf{s} \in \mathbb{S} : \sum_{j=1, \dots, k}^{m} \mathbf{g}_{j}^{(m-\frac{1}{2})} \right\} = \{-\}$$

We set
$$L_4 = \left\{z = 2 - \sum_{j=1, \dots, n-2}^{n} \sum_{j=1, \dots, n-2}^{n} z_{-j}^{-n} + \cdots \right\}$$
, where $d' = d' + \frac{1}{2} \cdot 2 - 1 \cdot 2$.

Thus, for each $p\in\mathbb{N}$ there exists $q\in\mathbb{N}$ roch that $\sum_{i=1}^{N}\sum_{i=1}^{N}\mu_{i_{i}}\geqslant p$, for all $(m,q)\in\mathbb{N}$

We non express the set L. at

where
$$L_{typers} = \left\{ s \in \mathcal{S} : \sum_{i=1}^{n+p} \sum_{j=1}^{n+p} e_{ij}^{-p} \geqslant \rho \right\}$$

Antifoguethy at in the finegoing part of the pood, we can vessly that each of the sets Lipper is closed.

Hence, the set $A_g = \{s \in \mathcal{S} : \tilde{s}(s) \geq d\} = \bigcup_{s \in \mathcal{S}} \bigcap_{s \in \mathcal{S}} \bigcup_{s \in \mathcal{S}} \bigcap_{s \in \mathcal{S}} A_{\operatorname{dispers}} \Leftrightarrow m F_{\operatorname{disp}}$ set and therefore A., belongs to the third additive Borel cite

COROLLARY 2 The function 8 | 1 - 0 - 1 is a minimizable function

THEOREM 5. For every near number of each set $A^d = \left\{ x \in \mathbb{F} \mid A(x) = d \right\}$ to of Anti congany in 2

Proof. By runse of the above themen, we can make

where
$$B_{kl} = \bigcup_{m=1}^{l} \bigcup_{i=1}^{l} \bigcup_{j=1}^{m} \left\{ a_{j} : a_{j} \ge 1 : \sum_{j=1}^{m} \bigcup_{i=1}^{m} \sum_{j=1}^{m} a_{j}^{-j} \in \frac{1}{2} \right\}$$

We first prove that, each of the sets $M_{\nu_{\nu}}$ to of their energies as T . For that is in sufficient to these that $H_{\rm to}$ is an $E_{\rm F}$ but whose enterplanation denote to 3

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Let . | 1 - | -- | 1 Progress - C for a be made opinion single such that 2. 4 in a label of the first of the second of

We are nontrove a sequence of \$\land{\ell}_{n,n,i,j} \columnia \text{ of foliant}

Let $t_{m_1} = \int 0$ where $t \in \mathbb{R}^n$ is $0 \in \mathbb{R}^n$. Where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_{m_1} = \int 0$ where $t_{m_2} = \int 0$ where $t_$

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It is clear than it is a first Agent, there is a possesse overger a face both

Then there exist $g\in \mathbb{N}$ such that for all $(m,n)\in \mathbb{N}$. Note the p and $m\geqslant p$ we have

$$\sum_{j=1}^{n}\sum_{i=1}^{n} x_{i,j} = \sum_{j=1}^{n}\sum_{i=1}^{n}(\operatorname{ext})^{-\frac{n}{2}}$$

Since the series $\hat{\Sigma}_i \hat{\Sigma}_i$ (me) $\hat{\Sigma}_i$ is director; then it belong to the complement of N_{ii} Therefore the complement of H_c is desire in I

Also each of the sets H_{transp} is simple. Hence, $H_{transp} = \bigcup_{i=1}^{n} \bigcup_{j=1}^{n} \bigcap_{i=1}^{n} H_{transp} = 0$ in F_{C} set. Thus, each of the sets H_{K} is of first category in T and consequently A^{d} J () No e of free company ()

TRECKEN T. The not [n < 1 d or] is equivalent.

Proof By Theorem 6, the set $\{(-1,k;s) \in -\}$. $\bigcup_{i=1}^{n} \{s \in J, \hat{k}(s) \in \sigma\}$ is of have resemptery as 2 and also the space 2 is complete. Hence, the set $\{c \in S: A(c) : w\}$

TREDUCES Section 1. Desire with $\{x \in \mathcal{X}(A(x) \mid x\} \text{ is Measured 5.}$

Prior Let $r = \{y_{nm}\}_{n=1}^n$ be not prior in A. Let m choose r > 0 and $(r,r) \in$ $\mathcal{H} = \mathcal{H}$ such that $\sum_{i} \sum_{j} \frac{1}{2^{j}} \leq \Gamma$

We choose $(w,v)\in\mathcal{H}=N$ such that for every $(w,w)\in N\times M$ such (w,w)=(0,1)we have $f(m) = ((n + r))^{\frac{1}{2}} \ge \max\{x_m : (m,n) \le (k,b)\}$

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Define a seprence . Limitaria visitation

$$\label{eq:section} \mathcal{L} = \begin{cases} s_{mi} & \text{fin} \quad (m, \mathbf{x}) \in (M/r), \\ ((m, \mathbf{x})(m, r))^{\frac{1}{2}} & \text{for all} \quad (m, \mathbf{x}) \quad \text{where} \quad (m, \mathbf{x}) \notin (R/r). \end{cases}$$

they riendy ... Arrive and

$$\begin{array}{ccc} II_{-1} & \limsup_{n \to \infty} \frac{M_n^{(n)}}{M_n^{(n)}} \\ & \limsup_{n \to \infty} \frac{M_n^{(n)}}{M_n^{(n)}} & 1 \end{array}$$

be $x \in \mathcal{B}(y, F)$ (i.e. and consequently $\mathcal{B}(y, F)$ (i.e. $x \in \mathcal{B}(y)$ arbitrary $x \in \mathcal{B}$. Hence, $A, x \in \mathcal{B}(y)$ dece to 1

THEOREM ? The function A. S. . S. . I is treatly discentrated in S.

Proof. Let $x=(x_{m^{-1}m,n+1}$ be any point in A. We take a double requesse a $((mx)^{p})_{m,n+1}$ with M=0 and $A(x) \in \frac{1}{2}$. Then

$$A(n) = \lim\sup_{n \to \infty} \frac{\log nn}{\log n} = \frac{1}{n} \text{ i.e. } A(n) \in A(n).$$

We now construct a sequence $\{x^{(i)}\}_{i=1}^{\infty}$ as 3 or Sellow i.

$$c_{\rm ex}^{(1)} = c_{\rm ex} \quad {\rm for} \quad m = -1, 2, \ldots, n \quad 0 = 1, 2, \ldots, n$$

 $\underline{\mathbf{f}}^{\ell}\left(\mathbb{T}:(1)^{\ell}\otimes \mathbf{r}_{\mathrm{per}},\text{ then we take }\mathbf{f}_{\mathrm{spe}}^{\ell}=(\mathbf{m}\mathbf{r})^{\ell}\text{ for all }(\mathbf{m},\mathbf{r})\text{ when }(\mathbf{m},\mathbf{r})\nleq(1)\right)$ $\mathbb{E}[(1)] \cap \mathbb{F}_{n}$, then we take $\mathbb{F}_{n} = \mathbb{F}_{n}$ for $m = (-1) \cap \mathbb{F}_{n} = \mathbb{F}_{n}$ and we set $(1) \cap \mathbb{F}_{n} = \mathbb{F}_{n}$ where $f \in \mathcal{M}$ do leave produce unexpection than $(f)^{d} \geq \mathbb{F}_{n}$ and we set (+1, j+1, -j-1) where j is the least positive subsection $i_{m+1} = (m\pi)^d$ for all (m, n) when $(m, n) \notin (j-1, j-1)$

It is clear that, the element of the sequence $\{\pi^{(i)}\}_{i=1}^m$ belongs to $\hat{\Xi}$ and has $\pi^{(i)}=0$

Then,
$$\lambda(x^{(i)}) = \frac{1}{2} \operatorname{doc}(x + 1.2.3)$$
, and hence $\lim_{n \to \infty} \lambda(x^{(i)}) = \frac{1}{2} (\lambda(x) - 1)$.

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Linkage for Research Activities

- Chandan Sarkar
- Uma Sankar Malik

PROCESSES AND PATTERN OF URBANIZATION IN NORTH 24 PARGANAS DISCTRICT, WEST BENGAL

Chandan Sarkar* and Uma Sankar Malik**

Urbanization is now a worldwide phenomenon. Urbanization, socio-economic development and industrialization are interlinked to each other. North 24 Parganas district is high urbanized district of west Bengal. The rate of urban growth and urbanization are rather very match with the support of infrastructure. Urbanization in terms of urban population, urban spacing, urban centers and infrastructural development are quite satisfactory with compare to west Bengal as well as India. This paper analyze an over view of urbanization in the district since the independence period. Firstly discuss urban growth in terms of population, area and urban center. Secondly also discuss about the all types of urban areas like out growth, census town, cantonment board, municipality etc. Thirdly discuss the level of urbanization in the district. Then the paper presents the main features of urbanization for last sixty years, mainly on the basis of census data, other secondary data and perception.

Urbanization is a complex process of population concentration and concomitant impact on population structure, population composition, economic activities, social matrices and way of living of people in a new developed situation. The urbanization processes is very much dependent on the economy of the area or vies-versa. Under different situation different urban pattern are emerging out of multiplicity of urbanization processes. Urbanization is an index of transformation from traditional rural economies to modern industrial one. It is progressive concentration (Davis, 1965) of population in urban unit. Quantification of urbanization is very difficult. It is a long term process. Kingsley Davis has explained urbanization as process (Davis, 1962) of switch from spread out pattern of human settlement to one concentration in urban centers. It is finite process- a cycle through which a nation pass as they evolve from agrarian to industrial society (Davis and Golden, 1954).

Urbanization level is an important concept that involves continuous change within the urban area itself in terms of urban growth, urbanization, urban problems and expansion of town boundaries. Urban growth occurs through natural increase coupled with migration from other areas. Urbanization is a process by which urban percent increases with concomitant socio-economic development. It is a manifestation of social ecological development and changes in the economic and political order of the nation itself. As a nucleus of economic and commercial hub, it is generally an area of high population density. In a Third World country like ours, the towns and cities are associated with deficient infrastructure, inadequate civic amenities and services, huge unemployment, random growth of slums, sprawls and squatters, vanishing urban greens, water logging, pollution and related health hazards, and so on.

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As a student of geography, the current researcher intends to explore urban growth and urbanization in order to find a gateway to the development through smart growth and green urbanization. There is still enough scope for urban development by setting up new urban centers and rebuilding the older ones with new eco-friendly technologies.

Geographers use term urbanization more commonly to a process of transformation. Lampard suggests that a distinction should be made between the three aspects of the process of urbanization, i.e., behavioral, structure and demographic aspects of urbanization process. Keeping in view the various aspects of urbanization, Riesman depicts urbanization as a process of change, when a society is transformed from an agrarian economy and small homogeneous society to an industrial economy and large heterogeneous mass. Or in other words urbanization is a territorial response to structural changes in the economy. Now day the city has been increasingly chosen as the spatial unit where the adequacy of political institution, performance of government agencies and effectiveness of programmes to combat social problems, to solve the environmental problems and to promote economic development has to be tested. Therefore, the level of urbanization is often equates level of development in Principal

P.N. Das College Palta, Bengal Enamel, N. Ballets. general. To formulate and to modify urban policies and programmes it is necessary to collect information on urban conditions and trends. Only then we can convert this information to knowledge for formulating and modifying urban policies and programmes. Therefore it has become essential to investigate the level of urbanization of North 24 Parganas. The present study is concerned with the historical aspect of the district's urbanization, its trend through time since independence and its present level of urbanization. Therefore the pattern of urbanization has become essential to measure the level of urbanization of North 24 Pgs. The present study has been analyzed the trend and patter of urbanization of the North 24 Pgs. District.

OBJECTIVES

The study aims highlighting the urban growth and development in North 24 Parganas district with following objectives.

- 1) To study the basis of urbanization of the study area and the urban processes.
- ii) To study the pattern and trend of urban growth and urbanization the study area during post independence.
- iii) To study the problems of urbanization,
- iv) To study the level of urbanization in the district.

DATA BASE AND METHODOLOGY

The present study is based on the secondary data, has been collected from district census hand book, district statistical hand book and municipality in the district. This paper has been analyzed with both quantitative and qualitative techniques. First step has been analyzed the growth pattern of urban population, urban space, urban centre and urban size class distribution. Secondly analyzed level of urbanization in the district. Finally use Microsoft Office Excel 2007 for analysis the quantitative data and present analysis result by different graph.

The district North 24 Parganas forms the south-eastern part of the West Bengal and lies between 22°11'06" N to 23°15'02" N latitude and 88°20'E to 89°05' E longitude (figure-1). The district is bordered by the districts of Nadia in north, South 24 Parganas and Kolkata in the south, Howrah and Hooghly in the west, Bangladesh forms the eastern border of the North 24 Parganas. Barasat is the district headquarters. North 24 Parganas is the most populous district having 10009781 populations (Census of India, 2011) and also the tenth largest district in the state by area (4094.0 sq. km). It has five subdivisions, 22 community Development blocks, 27 municipalities and a total of 107 (Municipality 27 + Cantonment Board 01 + Census Town 78 + Industrial Township 01) urban centers. Total urban population of the district is 5732162 and 57.27% urban population. The density of population (2445persons/ sq.km.) is much higher than the state average of 1029 population per sq.km. and it ranks third in terms of population density.



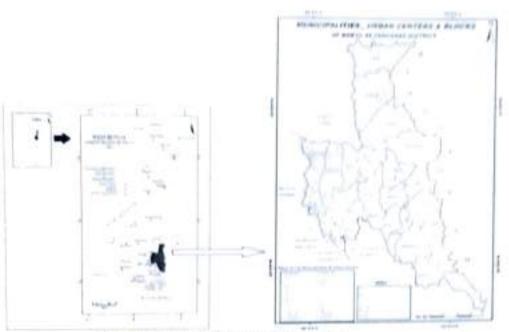


Figure-1 Location Map of the Study Area

PATTERN OF URBAN GROWTH AND URBANIZATION

For proper analyzing the urban growth and urban development in any area, it is important to study the processes and pattern urban growth and urbanization from various angles. At the same time it is also necessary to bring out the processes and pattern of urban growth and urbanization in North 24 Parganas district.

The present pattern of urbanization has evolved from ancient period to till now. Now coming to the North 24 Parganas district has long urbanization history. The volume, trend, processes and pattern have been analyzed from 1951—2011. Since the Independence of this country, district North 24 Pgs. of West Bengal, India has been experiencing a very high pace of urbanization both in terms of volume of urban population, number of urban centres and also urban areas. Urban population in this district has increased from 949243 in 1951 to 5732162 in 2011 implying a nearly six fold increase during the last 60 years (i.e. 1951—2011).

During the same (1951-2011) period, number of urban centres leaped from 36 to 107 (about 3 times). Similarly urban population to total population of the district increased from 42.92% in 1951 to 57.26% in 2011. Urban area have also increased from 9.75% (1951) to 24.81% (2011). But it is found that in 1971 there are negative urban growths, due to some declassification of some census towns. This clearly signifies the speed and scale of urbanization in the district. Such urbanization was found in European Countries in the first quarter of the last century. The urbanization in this district was steadily very high during the last six decades (i.e. 1951 – 2011).

TABLE-I URBAN AREA, URBAN POPULATION, NAME AND NUMBER OF THE URBAN CENTER OF NORTH 24
PARGANAS DISTRICT, (1951-2011)

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THE 1772110 19(T-20) (B-1,00) () STATE A (0.17 HH BO Source: Computed by authors from different Census Reports, 1951-2011 27 Managalay 1877 M + 636-11 TRH-L

During the past 60 years 1951-2011 urban area increased from 331.58 sq.km to 623.91 sq.km and number of urban centres also increased from 36 (1951) to 111 (2011).

But in 2001 the urban centres decreased by -21.42%. The number of urban centres was 70 in 1991 and 55 in 2001. As some census towns have been merged to nearby municipality and some urban outgrowths also merged with municipality and then converted to census towns. This reduction of urban centres occurred due to declassification and reclassification of towns. The urban population density was 2862.8 sq.km in 1951 and 9187 sq.km in 2011. During from 1951 to 1971 the district had at high level of urbanization; between1971-2001 level of urbanization was slow but steady. The increase of urban population in percentage, number of urban centres, urban rural ratio, urban population density, and percentage of increase urban centres all show a certain degree of urbanization in every census year (1951-2011) Table-1.

DEGREE OF URBANIZATION

The degree of urbanization is defined as relative number of people who live in urban areas. Percentage of Urban population (U/P*100), percent rural (R/P*100) and urban rural ratio (U/R * 100) are used to measured degree of urbanization. The ratio U/P has lower limit 0 and upper limit is 1. U/P =0 means 100% rural population, U/P=1 means 100% urban population.

TABLE-2 DEGREE OF URBANIZATION IN NORTH 24 PARGANAS DISTRICT, 1951-2011

Census Year	Rural Population	Urban Population	Percentage of Rural Population	Percentage of Urban Population	Urban Rural Ratio in
1951	1286927	949243	57.55	42.45	Percentage 73.76
1961	1730490	1464267	54.10	45.83	84.85
1971	2133883	2066266	50.10	49.19	99.58
1981	2710771	2821366	49.00	5.99	104.05
1991	3539629	3730300	48.69	5131	105.39
2001	4083339	4859947	45.70	54.30	118.80
2011	4277619	5732162	42.73	57.27	134.00

Source: Computed by authors from different Census Reports, 1951-2011

From above table-2 it is clear that percentage of urban population has increased from 42,45% in 1951 to 57,27% in 2011. Whereas percentage of rural population has shown the gradual decrease from 57.55% in 1951 to 42.73% in 2011. The urban rural ratio for the district in 2011 turnout to be 134, meaning that against every 100 ruralites there are 134 urbanities. This ratio gradually increase from 73% (1951) to 134% (2011). All This indices focused the high degree of urbanization of the district. In other hands urban rural ratio in West Bengal is 47% and in India is only 45%. These features indicate high pace of urbanization of the district compare to state and nation. This high urban growth is attributed mainly by large scale migration from rural areas and international migration from Bangladesh. Hooghly industrial belt and near of Kolkata metropolitan area are also responsible for the high level of urbanization of this district.

The significant fact is that though there is constant increase in rural population from 1951 to 2011 in the district but the percentage share of rural population have shown a constant decrease (Table 2). At the same time, there is constant increase in percentage share of urban population to total population of the district from 1951 to 2011 (Table-2).

DECADAL URBAN POPULATION GROWTH

The decadal growth rate is the growth rate of population by preceding decade. These may be positive or negative value. The Table-3 show the population decade of 1951 61 decade. value. The Table-3 show the population decade of 1951-61 decade, the rate of growth of rural population (34.47

N. Das Cottege

percent) was much lower than the urban population (54.26 percent). This figures is witnessed the highest rate of urban growth, compared to the next several decades. Because the decadal growth rate of urban, rural and total population gradually decreased from 1951 to 2011. But the decadal growth of urban population is greater than that rural and total population in every census year. In the decade of 2001-2011, the growth rate of urban population (18.17 %) is higher than rural population (4.76%) and total population (12.04%). This means the district gradually reached saturated condition in case of rural, urban and total population. So, the district represents as a most important populated district of the sate as well as nation.

TABLE 3 DECADAL GROWTH OF POPULATION IN PERCENTAGE, NORTH 24 PGS DISTRICT (1951-2011)

Census Year	fluent Population	Urban Population	Total Population
1951-1961	34.42	54.26	42.87
1961-1971	23.34	41.11	11.47
1971-1981	27.03	3n.54	31.71
1981-1991	30.58	32.22	31.41
1991-2001	13:36	30.04	27.89
2001-2011	4.76	18.17	12.04

Source: Computed by authors from different Census Reports, 1951-2011

From decadal growth rate in urban population of North 24 Parganas district went on declining consistently over the census decades, so the level of urbanization went on increasing. The decadal growth rate was 55% in 1951 and 18% in 2011. This means the district gradually reached to saturated condition in urban population. But the decadal growth rate of urban population in West Bengal and India has been oscillating in nature from decade to decade (Table-4). This represent the urban population density is high in the district, compare to state and nation. From this point of view to control the urban population load of the district, the urban areas have to need increase in surroundings of suburban areas and need to plan for existing urban areas.

TABLE-4 DECADAL URBAN POPULATION GROWTH IN NORTH 24 PARGANAS DISTRICT, WEST BENGAL AND INDIA (1951-2011)

Census Year	North 24 Parganas District	West Bengal	India
1951-61	54.26	35.97	26.41
1961-71	44.11	28.41	38.23
1971-81	36.54	31.73	46.14
1981-91	32.22	29.49	36.19
1991-2001	30.04	19.88	31.39
2001-2011	18:17	29.72	32.15

Source: Computed by authors from different Census Reports, 1951-2011

LEVEL OF URBANIZATION

The level of urbanization gradually increases from 1951 to 2011 in the district as well as state and nation. But the level urbanization in the district is double times compare to state and nation in every census years. The above Table-5 shows the total urban population in the district is 57% in 2011. On the other hand level of urbanization in West Bengal and India as a whole only 31.87% and 31.16% in 2011 census. This high level of urbanization of the district can be attributing to growth of Kolkata metropolitan and industrial belt of the district and other urban services and opportunity.

TABLE 5 LEVEL OF URBANISATION IN NORTH 24 PARGANAS, WEST BENGAL AND INDIA (1951-2011)

Ī	Census Year	North 24 Parganas District	West Bengal	India
t	1951	42.45	23.88	17.29
ŀ	1961	45.83	24.45	17.97
l	1971	49.20	24.75	18,24
	1981	51	26.47	23.34

Pr

1001	3131	27.48	25.72
2001	54.3	27.97	27.78
2011	57.27	31.87	31.16

Source: Computed by authors from different Census Reports, 1951-2011

URBAN POPULATION AND TOWNS SIZE DISTRIBUTION

Urban size class in North 24 Parganas district is a major component for urbanization. Actually, the urbanization is a function and processes of urban population size. Urban population in India is graded into six classes by census according to their respective population.

TABLE-6 CLASS WISE PERCENTAGE OF TOWN IN NORTH 24 PARGANAS DISTRICT, 1951-2011

Census Year	1951	1961	1971	1981	1991	2001	2011
Class-I Town	2.78	10.00	12.50	17.39	27.12	43.75	20.56
Class-li Town	16.67	20.00	27.50	23.91	11.86	4.17	2.80
Class-III Toon	19.44	25.00	35.60	23.91	18.64	8.33	4.67
Class-IV Town	27.78	20.00	5.00	19.57	20.34	14.58	20.56
Class-V Town	2.78	2.50	15.00	13.04	18.64	27.08	46.73
Class-VI Town	30.56	22.50	5.00	2.17	3.39	2.08	4.67
Total	100	100	100	100	100	100	100

Source: Computed by authors from different Census Reports, 1951-2011

The urban class wise number of percentage of urban centres is important to measure level of urbanization. In 1991-2001 number of class –I towns were highest (43.75%). But in 2001-2011 a huge number (new CT= 58) of census towns have been formed. These all census towns are class –V category. It can be expected that these census towns will be merged to the near able higher class-I, II and III towns. So number of class –I, II, and III towns will be increased in future. So the urban agglomeration will continue in future.

TABLE- 7 URBAN CLASS WISE PERCENTAGE OF POPULATION IN NORTH 24 PARGANAS, 1951-2011

Census Year	1951	1961	1971	1981	1991	2001	2011
Class-I Town	14.21	33.61	40.33	45.20	71.93	86.60	79.07
Class-II Town	42.07	35.75	35.20	35.26	11.87	3.36	2.83
Class-III Town	25.86	20.15	21.12	12.93	9.52	3.06	3.46
Class-IV Town	15.35	8.16	0.58	4.43	4.27	2.02	4.71
Class-V Town	0.69	0.55	2.33	1.89	2.24	4.87	9.63
Class-VI Town	1.82	1.78	0.43	0.29	0.18	0.09	0.31
Total	100	100	100	100	100	100	100

Source: Computed by authors from different Census Reports, 1951-2011

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The pattern of urbanization in India by continuous concentration of population and activities in large cities (Kundu, 1983) and concentration of population in medium and small towns (Kundu, 1994) either fluctuated or decline. In 1951 the class-I town was 14%, in 2001 this was 86% and in 2011 this was 79%. According to 2011 census the percentage of population gradually decrease, with decreasing the size-class of towns. The percentage share of urban population is high of Class-I towns from 1971-2011. At the same time urban population gradually decreased toward class II, III, IV, V & VI towns (Table-5.9). This is largely due to the fact that the towns are lower categories having grown in size and entered the next higher category (Kundu, 1994). A new territorial unit named as outgrowth has also been included within the urban category.

From Table-7 that the class-I towns dominate district's, in the term of their share of urban population from 971-2011. In 1971, the share of population in class-I towns was 40.33 Percent which has gradually increase 86 percent in 2001 and 79 percent in 2011. But the feature was different before 1971, and then the class-II towns were dominated districts in urban scene. In 1951the population share of class-II towns were 42.07 percent and in 1961 was 35.75 percent, both were high population share towns. The share of urban population in class II, III, IV, and VI towns gradually decrease in every census year but share of urban population in class -V towns gradually increase due to formation of new Census Towns (CT) in every census year. The features represent the tendency of concentration of population is in large urban centres in the district in 1971-2011. This type of population distribution certainly reflect the over urbanized in class-I towns and others class (II-VI) towns are low urbanized towns. So the balance of urbanization has been need for urban development in the district.

TABLE-8 GROWTH RATE OF URBAN AREA AND URBAN POPULATION OF URBAN LOCAL BODIES AND CENSUS TOWNS IN NORTH 24 PARGANAS DISTRICT (1951-2011

Year	of Urban Local	Population of Urban Local Bodies	Area of Urban Local Bodies in sq km.	of Census Town	Population of Census Towns	Area of Census Town in sq km.	Number of Urban Out Growth	Total Number of Urban Centres
1951	Bodies 23	905427	287.13	13	43816	44.45	0	36
1961	26	1377174	31235	14	87093	51.57	0	40
1971	26	1909047	302.9	14	157219	51.57	0	40
1981	27	2535493	332.35	19	285873	71.68	13	59
1991	27	3242414	346.55	32	487886	89.04	11.	70
2001	28	4656718	467.1	20	194229	32.8	7	55
2011	29	5001716	451.43	78	730446	172.48	4	000

Source: Computed by authors from different Census Reports, 1951-2011

Census Towns are first recognized by the census of India in 1971. The census towns are administered by gram panchayate, but their physical character is like an urban areas. After independence of India influx of huge refugees from neighboring country, industrialization, improvement of civic amenities and other pull factor of urban centres which lead to rapid growth of Census Towns. As a result number of Census Towns increased from 13 in 1951 to 78 in 2011. Populations of census towns are gradually increasing from 4.62 percent in 1951 to 12,74 percent in 2011, out of total urban population of the district. So the role of Census Towns for urbanization is very much important in the district. The balanced urbanization and urban growth may be achieved by promoting and acknowledging Census Towns near the larger urban centres and the population pressure will be reduced to near larger urban centres.

TABLE-9 URBANIZATION LEVEL IN NORTH 24 PARGANAS DISTRICT (2011)

Name of the Subdivision	Number of census town	Name of the orban local bodies (27 Municipality + 01 Cantonment board + 01 (adustrial township)	Remarks (Level of urbanization)
Bidhanniger	80	l Bulgarragar (M) 2 Nahadiganta Industrial Township (ITS)	Very High
Ramickyw	34	 Kancharapara (M+CG) Z Halisahar (M) 3 Nahati (M) 4 Bhatpara (M + CG) 5 Garaha (M) 6 North Bartackpere (M). 7 Bartackpere (M) Tingarh (M) 9 Khardah (M) 10 Pamhati (M) 11 New Bartackpere (M) Karnarhati (M) 13 Bartanapa (M) 14 North DumDan (M) 15 Dans Dim (M) 16 South DumDan (M) 17 Bartackper Cantonness (CB) 	Hegh
Barasat	34	 Gobardanga (M) 2 Habra (M) 3 Ashokenagar Kalyangarh (M) 4 Rajarhat Gopulpur (M) 5 Madhyanigram (M) 6 Barasat (M) 	Moderate
Hangoon	2	T Bongane (M)	Low
Buildful	33	J. Baduria (M) 2 Toki (M) 3 (Janirkai (M)	Very Low

Source: Computed by authors Census, 2011

After computing the composite Z-score, we are able to detect the compact of all the indicators for level of urbanization. These indicators are urban Households, Town Population, Sex Ratio, Literacy Rate, Slum population, Population Density, Road density, Sanitation facilities, Electricity facilities, Health condition,

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Laucation status and banking facilities. Bidhannagar and Barrackpur subdivision show high level of urbanization due to nearness of Kolkata metropolitan and Hugli River industrial belt. Barasat is the district headquarters and nearness of Kolkata is present satisfactory explanation for moderate level of urbanization. Other two subdivision namely Bangaon and Basirhat show low level of urbanization for strong rural activity base.

CONCLUSION

The district have rapid rate of urbanization since independence both as a result of rural urban migration and after partition of India, the huge migration from Bangladesh. The urbanization concentrations are western part of district due to industrial belt, well transport system, other service sector and after all availability of non agro based economic activities. The rate of urbanization slowly spread towards eastern part of the district, due to agro base economic activities.

The district is near able of KMDA, so Bidhannagar and Barrackpure subdivision are very near to KMDA and symbolize as high urbanized area, within the district as well as the state. High level of urbanization promote economic diversification and low level of urbanization promote concentration of one economy activities, likely low level of urbanized area are agro based one economic activities and high level of urbanized area are diversified economic activities.

It is clearly that North 24 District experienced a high level of urbanization since independence. Due to emergence of a large number of new census town, rural urban migration, unauthorized migration from Bangladesh, Hugli River Industrial Belt, civic amenities, infrastructural development and other service facility. But there is present spatial disparity in urbanization level. The Bidhannagar subdivision which contains Bidhannagar municipality and Nabadiganta Industrial Town is fully urbanized area. Barrackpure subdivision which contains 24 Census Towns and 17 municipalities (a linear urban agglomeration of Kolkata) is high urbanized area. Barasat sub-division which contains 34 Census Towns and 6 Urban Local Bodies is moderate high urbanized area. This high urbanized zone lead to deterioration quality of urban environment and increase the concentration of civic amenities, infrastructural development and economic development. Therefore urbanization process should be continue by a uniform and balanced way all over the district. The low urbanized area i.e. Bangaon and Basirhat subdivision have to need more civic amenities, uplift infrastructure development, social awareness and take to need proper government policy for further urbanization like i) Balanced urban regional planning ii) Development of urban economy, iii) Integrated of Rural Urban Economy emphasis on agro base industry, iv) Increase of public amenities and infrastructural development, V) To established green urbanization and spacing for play ground, VII) Available of cultural entertainment facility in urban areas and so on. How the Govt. and other NGO faces this more challenge remains to be seen.

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