

## Report on Two Days National Level Seminar

**Title of the Seminar:**

**Recent Trends In Chemical Sciences [RTCS-2018]**

**Organized by:** Department of Chemistry, Surendranath Evening College.

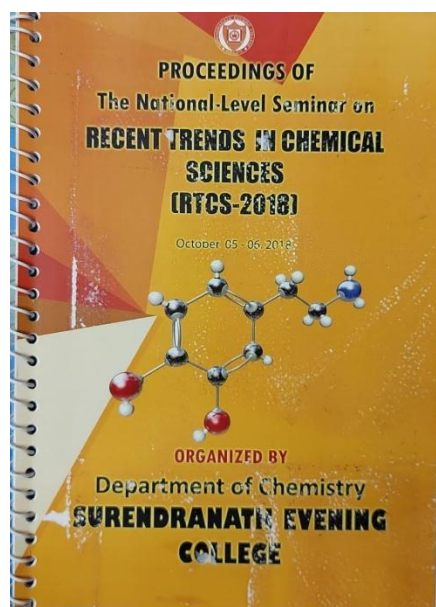
**Date:** 05/10/2018 & 06/10/2018

**Venue:** Surendranath College Auditorium

**Funding Agency:** Surendranath Evening College



*Banner*



*Conference Proceeding (RTCS-2018)*

## About the College and the Department

Surendranath Evening College is an undergraduate college in Sealdah, Kolkata. It is affiliated with the University of Calcutta. In the year 1963, the college got affiliation for chemistry pass course and later in the year 2015 the University of Calcutta gave permission to conduct Chemistry Honors course (UG level). Our college is recognized by the UGC U/S 2f and 12B and its parent body is University of Calcutta. The Department of Chemistry presently have four permanent faculties all with good academic backgrounds and research careers. We have three well-equipped laboratories with skilled laboratory attendants. The department aims to give their students maximum academic support and focuses on improving the teaching and learning process.

### Organizing Committee

#### Advisor

Prof. Subrata Ghosh, FNA, FASc ( INSA, Senior Scientist )

#### Chairperson

Dr. Supti Saha Roy (Teacher-in-Charge, SNEC)

#### Conveners

Dr. Tapas Kr. Paira ( HOD, Dept. of Chemistry, SNEC)

Dr. Averi Guha

#### Treasurers

Dr. Tapas Kr. Paira

Dr. Debasis Manna (Bursur, SNEC)

## PROGRAMME SCHEDULE

**Day 1 : 5<sup>th</sup> October, 2018**

❖ **REGISTRATION : 10:00 a.m. – 11:00 a.m.**

**INAUGURAL SESSION: 11:00 a.m. – 11:45 a.m.**

❖ **Welcome Address : By Dr. Tapas Kr. Paira**, Convener of the Seminar & HOD, Department of Chemistry, Surendranath Evening College

❖ **Felicitations of the distinguished guests**

❖ **Inauguration of the seminar : By Lighting of lamp**

❖ **Inaugural Speech**

❖ **Vote of Thanks : By Dr. Supti Saha Roy**, Chairperson of the seminar & Teacher-in-Charge, Surendranath Evening College

**Tea Break: 11:45 a.m. – 12:00 p.m.**

### TECHNICAL SESSION – I

*Chairperson : Prof. Chaitali Mukhopadhyay, Department of Chemistry,  
University of Calcutta*

**Lecture 1: 12:00 p.m. – 12:45 p.m.**

By **Prof. Subrata Ghosh**, FNA, FASc, INSA, Senior Scientist

*Title: " Synthesis Of Structurally Complex Organic Molecules – A Captivating Aspect In Organic Chemistry "*

**Lecture 2: 12:45 p.m. – 1:30 p.m.**

By **Prof. Debasis Das**, Department of Chemistry, University of Calcutta

*Title: " Mimicking Of The Structural And Functional Properties Of Catechol Oxidize And Phosphates: The Recent Advancements "*

Lunch Break: 1:30 p.m. – 2:30 p.m.

## TECHNICAL SESSION – II

*Chairperson: Prof. Subrata Ghosh, INSA, Senior Scientist*

**Lecture 3: 2:30 p.m. – 3:15 p.m.**

By Prof. Chaitali Mukhopadhyay, Department of Chemistry, University of Calcutta.

*Title: “Molecular Dynamics Simulations Of Bimolecular Complex And Assemblies”*

**Lecture 4: 3:15 p.m. – 4:00 p.m.**

By Prof. Shyamal Kumar Chattopadhyay, Department of Chemistry, IEST, Shibpur

*Title: “Understanding Bioinorganic Chemistry From Chemical Principles”*

## ORAL SESSION – I

*Chairperson : Prof. Debasis Das , Department of Chemistry, University of Calcutta*

**ORAL PRESENTATION – 1 : 4:00 p.m. – 4:10 p.m**

By Dr. Parimal Routh, Assistant Professor, Dept. of Chemistry, Charuchandra College

*Title: “Boron-Nitrogen-Phosphorous Doped Graphene Nanoplatelets For Enhanced Electrocatalytic Activity”*

**ORAL PRESENTATION – 2 : 4:10 p.m. – 4:20 p.m**

By Dr. Prithwiraj Byabartta, Assistant Professor, Dept. of Chemistry, Jogesh Chandra Chaudhuri College

*Title: “Coordination Chemistry Of Ruthenium And Osmium With Arylazoimidazoles”*

**ORAL PRESENTATION – 3 : 4:20 p.m. – 4:30 p.m**

By Dr. Meenakshi Ghosh, Assistant Professor, Dept. of Chemistry, Vidyasagar College for Women

**Title: "Small Molecular Probe As Selective Ditopic Sensor Of F<sup>-</sup> And TNP: Experimental And Theoretical Investigations"**

**ORAL PRESENTATION – 4 : 4:30 p.m. – 4:40 p.m**

By Dr. Debarati Ray, Dr. D. S. Kothari Post Doctoral Fellow, Department of Chemistry, Jadavpur University

**Title: "Modulation of ESPT Dynamics in a Model Lactim-Lactam Tautomeric System by Anisotropic Gold Nanoparticles"**

----- Tea and end of day one of seminar -----

**Day 2 : 6th October, 2018**

**TECHNICAL SESSION – III**

*Chairperson : Prof. Debasis Das , Department of Chemistry, University of Calcutta*

**Lecture 5 : 10:30 a.m. – 11:15 a.m.**

By **Dr. Soumitra Maity**, Department of Chemistry, IIT (ISM), Dhanbad

*Title: "Visible Light Mediated Photo-Redox Catalysis In Organic Synthesis"*

**Tea Break: 11:15 a.m. – 11:30 a.m.**

**Lecture 6: 11:30 a.m. – 12:15 p.m.**

By **Prof. Ashutosh Ghosh**, Department of Chemistry, University of Calcutta

*Title: " Hetero-Metallic Complexes: Facile Strategy For Synthesis, Diversity In Structures And Magnetic Properties, And Effectiveness In Catalysis"*

**Lecture 7: 12:15 p.m. – 1:00 p.m.**

By **Dr. Dipankar Srimani**, Department of Chemistry, IIT Guwahati

*Title: "The Application of Metal-Ligand Cooperativity in Sustainable Catalysis"*

**ORAL SESSION-II**

*Chairperson: Prof. Ashutosh Ghosh, Department of Chemistry, University of Calcutta*

**ORAL PRESENTATION – 5 : 1:00 p.m.- 1:30 p.m.**

By **Mr. Sujit Basu**, Advisor – Health, Safety & Environment, with MCPI Private Limited

*Title: " Various Chemical Hazards In Chemical Industries."*

**Lunch Break : 1:30 p.m. – 2:30 p.m.**

**POSTER SESSION - 2:30p.m – 3:30p.m.**

## ORAL SESSION – III

**Chairperson:** Dr. Soumitra Maity, Department of Chemistry, IIT (ISM),  
Dhanbad

### ORAL PRESENTATION – 6 : 3:30 p.m. – 3:40 p.m.

By Dr. Biswajit Panda, Assistant Professor, Dept. of Chemistry, City College  
**Title:** *“Polycyclopropene Based Polymeric Ladderphanes”*

### ORAL PRESENTATION – 7 : 3:40 p.m. – 3:50 p.m.

By Dr. Maitrayee Basu Roy, Assistant Professor, Dept. of Chemistry, Vidyasagar  
College for Women  
**Title:** *“Interaction Of Bovine B Lactoglobulin A With Drug Tetracycline And Its  
Eu(III) Complex In Aqueous Medium”*

### ORAL PRESENTATION – 8 : 3:50 p.m. – 4:00 p.m.

By Dr. Sayantan Ganguly, Assistant Professor, Dept. of Chemistry, Taki  
Government College  
**Title:** *“Synthesis, Structure And Catecholase-Like Activity Of An Alternating  
Mn<sup>II</sup>-Mn<sup>III</sup> 1D Chain”*

### ORAL PRESENTATION – 9 : 4:00 p.m. – 4:10 p.m.

By Dr. Amit Mandal, Assistant Professor, Dept. of Chemistry, Behala College  
**Title:** *“Carbon Nanomaterials : Jack Of All Trades”*

### ORAL PRESENTATION – 10 : 4:10 p.m. – 4:20 p.m.

By Dr. Chhandasi GuhaRoy Sarkar, Assistant Professor, Dept. of Chemistry, Taki  
Government College  
**Title:** *“Molecular Orbital Compositions, Spectroscopic and Cyclic  
Voltammetric Properties of Rhodium Complexes of 1,3-Diaryltriazenes in the  
light of DFT ”*

**Valedictory Address:** By Dr. Averi Guha, Convener of the Seminar, Department  
of Chemistry, Surendranath Evening College

## DISTRIBUTION OF CERTIFICATES

----- Tea and end of the seminar -----



*Release of Conference Proceedings by Dr. Tapas Paira, Dr. Supti Saha Roy (former Teacher-In-Charge, SNEC) & Dr. Averi Guha.*

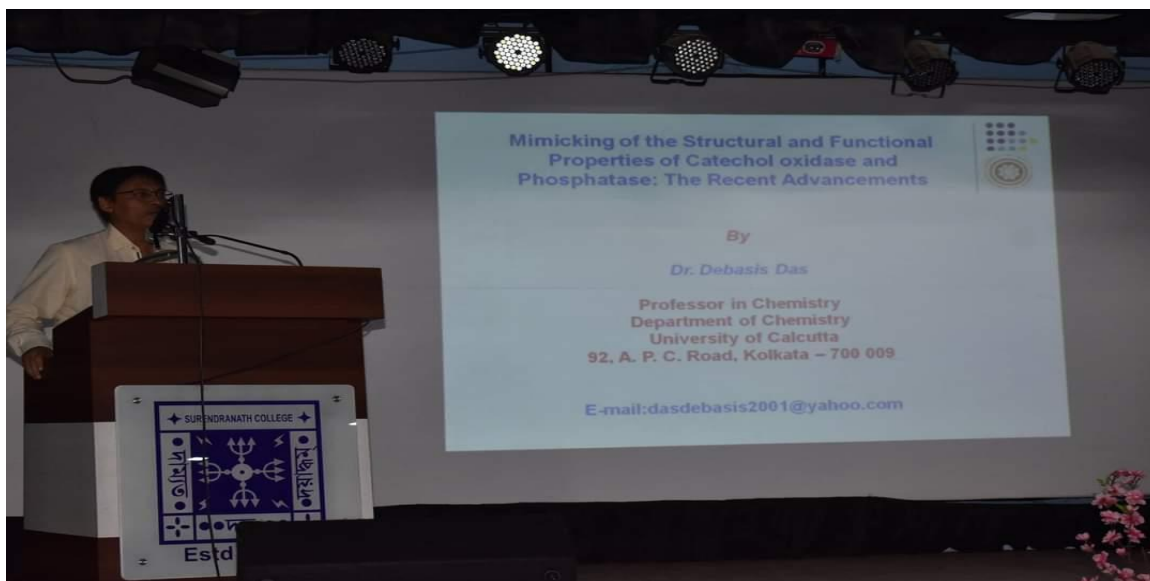


*Registration Desk*



*Inaugural ceremony by lighting the lamp*





*Speaker Dr. Debasish Das, Professor, Department of Chemistry, University of Calcutta (Presently-Registrar, University of Calcutta)*



*Poster Session*

Participant List for The National Seminar in the Dept. of Chemistry

Participants for poster presentation

| Sl No. | Name of the participant | Name of the department & institution                    | Signature       |
|--------|-------------------------|---|-----------------|
| 1.     | Dr. Anuva Samanta       | Department of Chemistry, Victoria Institution (College) | Anuva Samanta   |
| 2.     | Dr. Apurba Biswas       | Department of Chemistry, Surendranath College           | Apurba Biswas   |
| 3.     | Dr. Ashis Dey           | Department of Chemistry, Sarsuna College                | Ashis Ashis Dey |
| 4.     | Dr. Churala Pal         | Department of Chemistry, Basanti Devi College           | Churala pal     |
| 5.     | Dr. Debarati Dey        | Department of Chemistry,                                | Debarati Dey    |

|     |                            |   |                     |
|-----|----------------------------|---|---------------------|
|     |                            | Vidyasagar College  |                     |
| 6.  | Dr. Gopal<br>Chandra Giri  | Department of<br>Chemistry, Bhairab<br>Ganguly College                  | Gopal Chandra Giri  |
| 7.  | Sri Gopal<br>Chandra Maity | Department of<br>Chemistry,<br>Abhedananda<br>Mahavidyalaya             | Sripal Maity        |
| 8.  | Dr. Hari Shankar<br>Biswas | Department of<br>Chemistry,<br>Surendranath<br>College                  | Hari Shankar Biswas |
| 9.  | Dr. Harisadhan<br>Ghosh    | Department of<br>Chemistry,<br>Surendranath<br>College                  | Harisadhan Ghosh    |
| 10. | Dr. Joyee Das              | Department of<br>Chemistry, Bagnan<br>College                           | Joyee Das           |
| 11. | Dr. Kinsbuk<br>Banerjee    | Department of<br>Chemistry, Acharya<br>Jagadish Chandra<br>Bose College | Kinsbuk Banerjee    |

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|-----|---------------------------|--|-----------------------|
|     |                           |  |                       |
| 12. | Dr. Lakshmi Kanta Das     | Department of Chemistry, Government General Degree College at Kharagpur-II | L K Das               |
| 13. | Dr. Lalita Das            | Department of Chemistry, Surendranath College                              | Lalita Das.           |
| 14. | Dr. Mominul Sinan         | Department of Chemistry, Charuchandra College                              | M sinan               |
| 15. | Dr. Madhurima Chakraborty | Department of Biochemistry, Vidyasagar College                             | Madhurima Chakraborty |
| 16. | Dr. Piu Dhal              | Department of Chemistry, Rammohan College                                  | Piu Dhal              |
| 17. | Dr. Prabal Giri           | Department of Chemistry, Guskara Mahavidyalaya                             | Prabal Giri           |
| 18. | Sri Rijaul Haque Mirdha   | Department of Chemistry, Ananda  | Rijaul Haque Mirdha   |

|     |                       |  |                    |
|-----|-----------------------|--|--------------------|
|     |                       | Mohan College  |                    |
| 19. | Sri Rintu Mondal      | Department of Chemistry, University of Calcutta                | Rmondal            |
| 20. | Dr. Samiran Mondal    | Department of Chemistry, Rammohan College                      | Samiran Mondal     |
| 21. | Dr. Suparna Guha      | Department of Chemistry, Bhairab Ganguly College               | Suparna Guha.      |
| 22. | Dr. Suparna Banerjee  | Department of Chemistry, Uluberia College                      | Suparna Banerjee   |
| 23. | Dr. Samiran Halder    | Department of Chemistry, Charuchandra College                  | Samiran Halder     |
| 24. | Dr. Shib Shankar Dash | Department of Chemistry, Govt. General Degree College, Salboni | Shib Shankar Dash  |
| 25. | Sri Sankar Ghorai     | Department of Chemistry,                                       | Sri Shankar Ghorai |

|     |                      |   |                  |
|-----|----------------------|---|------------------|
|     |                      | University of Calcutta  |                  |
| 26. | Dr. Saugata Konar    | Department of Chemistry, The Bhawanipur Education Society College | Saugata Konar    |
| 27. | Dr. Sudip Kumar Saha | Department of Physics, Diamond Harbour Women's University         | Sudip Kumar Saha |
| 28. | Dr. Sukumar Dhara    | Department of Chemistry, Seva Bharati Mahavidyalaya               | Sukumar Dhara .  |
| 29. | Dr. Tridib Bhunia    | Bijoy Krishna Girls' College                                      | Tridib Bhunia    |
| 30. | Dr. Tapas Kr. Ghosh  | Department of Physics, Diamond Harbour Women's University         | T. K. Ghosh      |
| 31. | Smt. Debapriya De    | Department of Biochemistry, Asutosh College                       | Debapriya De     |

Participants for oral presentation

| Sl No. | Name of the participant  | Name of the institution / company                            | Signature            |
|--------|--------------------------|--|----------------------|
| 1.     | Dr. Biswajit Panda       | Department of Chemistry,<br>City College                     | Biswajit Panda       |
| 2.     | Dr. Prithwiraj Byabartta | Department of Chemistry,<br>Jogesh Chandra Chaudhuri College | Prithwiraj Byabartta |
| 3.     | Dr. Sayantan Ganguly     | Department of Chemistry,<br>Taki Government College          | Sayantan Ganguly     |
| 4.     | Dr. Maitrayee Basu Roy   | Department of Chemistry,<br>Vidyasagar College for Women     | Maitrayee Basu       |
| 5.     | Dr. Parimal Routh        | Charuchandra College   | Parimal Routh        |
| 6.     | Dr. Meenakshi Ghosh      | Department of Chemistry,<br>Vidyasagar College               | Meenakshi Ghosh      |

|     |                              |  |                          |
|-----|------------------------------|--|--------------------------|
|     |                              | for Women  |                          |
| 7.  | Dr. Amit Mandal              | Department of Chemistry, Behala College          | <i>Amit Mandal</i>       |
| 8.  | Dr. Debarati Ray             | Department of Chemistry, Jadavpur University     | <i>Debarati Ray</i>      |
| 9.  | Dr. Chhandasi Guharoy Sarkar | Department of Chemistry, Taki Government College | <i>Chhandasi Guharoy</i> |
| 10. | Sri Sujit Basu               | MCPI Private Limited                             | <i>Sujit Basu</i>        |

List of participants

| Sl No. | Name of the participant  | Name of the institution / company                              | Signature                   |
|--------|--------------------------|--|-----------------------------|
| 1.     | Dr. Manisha Mukhopadhyay | Department of Chemistry, Lady Brabourne College                | <i>Manisha Mukhopadhyay</i> |
| 2.     | Dr. Shampa Khasnobis     | Department of Chemistry, Acharya Jagadish Chandra Bose College | <i>Shampa Khasnobis</i>     |



|    |                      |  |                  |
|----|----------------------|--|------------------|
| 3. | Dr. Taradas Sarkar   | Department of Chemistry,<br>Acharya Jagadish Chandra Bose College          | Taradas Sarkar   |
| 4. | Dr. Rammohan Pal     | Department of Chemistry,<br>Acharya Jagadish Chandra Bose College          | Rammohan Pal     |
| 5. | DR. Indrani Pal      | Department of Chemistry,<br>Acharya Jagadish Chandra Bose College          | Indrani Pal      |
| 6. | Dr. Sounak Dutta     | Department of Chemistry,<br>Ananda Mohan College                           | Sounak dutta -   |
| 7. | Dr. Krishnendu Dalui | Department of Physiology,<br>Government General Degree College at Kaliganj | Krishnendu Dalui |
| 8. | Smt. Adrita Banerjee | Department of Physiology,<br>University of Calcutta                        | Adrita Banerjee  |
| 9. | Smt. Pritha Gupta    | Department of Physiology,<br>University of Calcutta                        | Pritha Gupta.    |

|     |                       |   |                  |
|-----|-----------------------|---|------------------|
| 10. | Smt. Arti Sahu        | Department of Biochemistry, Asutosh College | Arti Sahu        |
| 11. | Sri Akash Chatterjee  | Department of Biochemistry, Asutosh College | Akash Chatterjee |
| 12. | Sri Soumyajit Nandy   | Department of Biochemistry, Asutosh College | Soumyajit Nandy  |
| 13. | Smt. Archismita Kundu | Department of Biochemistry, Asutosh College | Archismita Kundu |
| 14. | Sri Vinayak Ray       | Department of Biochemistry, Asutosh College | Vinayak Ray      |
| 15. | Shreya Das            | Department of Biochemistry, Asutosh College | Shreya Das       |
| 16. | Sri Pratim Biswas     | Department of Biochemistry, Asutosh College | Pratim Biswas    |
|     |                       |   |                  |
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|-----|----------------------|---|-----------------|
| 17. | Smt. Moupriya De     | Department of Biochemistry, Asutosh College           | Moupriya De     |
| 18. | Sri Sagnik Das       | Department of Biochemistry, Asutosh College           | Sagnik Das.     |
| 19. | Smt. Tiyasa Haldar   | Department of Biochemistry, Asutosh College           | Tiyasa Haldar   |
| 20. | Smt. Udit Ghosh      | Department of Biochemistry, Asutosh College           | Udit Ghosh      |
| 21. | Smt. Ayishmita Deb   | Department of Biochemistry, Asutosh College           | Ayishmita Deb   |
| 22. | Smt. Ayani Banerjee  | Department of Biochemistry, Asutosh College           | Ayani Banerjee  |
| 23. | Smt. Adhisree Sharma | Department of Biochemistry, Asutosh College           | Adhisree Sharma |
| 24. | Smt. Srijani Paul    | Department of Chemistry, Vidyasagar College for Women | Srijani Paul    |

|     |                     |  |                |
|-----|---------------------|--|----------------|
| 25. | Smt. Anusna mondal  | Department of Chemistry,<br>Bethune college              | Anusna Mondal  |
| 26. | Smt. Sharmistha Dey | Department of Chemistry,<br>Vidyasagar College for Women | Sharmistha Dey |
| 27. | Smt. Srijukta Dha   | Department of Chemistry,<br>Bethune College              | Srijukta Dha   |
| 28. | Smt. Sampriiti Hait | Department of Chemistry,<br>Vidyasagar College for Women | Sampriiti Hait |
| 29. | Smt. Moumita Mandal | Vidyasagar College for Women                             | Moumita Mandal |
| 30. | Smt. Ankita Sikder  | Vidyasagar College for Women                             |                |

SPOT REGISTRATION

| SI. NO. | NAME               | COLLEGE                      | SIGNATURE       |
|---------|--------------------|------------------------------|-----------------|
| 1       | ADITI GHOSH        | LADY BRABOURNE COLLEGE       | Aditi Ghosh     |
| 2       | SUJATA KOLE        | Surendranath Evening College | Sujata Kole.    |
| 3       | Arghya Tarafdar    | Surendranath Evening College | Arghya Tarafdar |
| 4       | Sohini Gupta       | Surendranath Evening College | S. Gupta.       |
| 5       | Shukdeb Paul       | Sundranath Evening College   | S Paul          |
| 6       | Nasmite Chatterjee | Surendranath Evening College | N.C.            |
| 7       | Amita De           | Surendranath Evening College | A.D.            |
| 8       | Lopa De            | Surendranath Evening College | LP              |
| 9       | Shripam Debroyal   | Surendranath Evening College | Shripam.        |
| 10      | BANDIPAN GUHA      | ASUTOSH COLLEGE              | Bandipam Guha   |

|    |                   |                        |                    |
|----|-------------------|------------------------|--------------------|
| 11 | Amit Das          | SNEC                   | Amit               |
| 12 | ASHIM ADHIKARI    | SNEC                   | Asim Adhikari      |
| 13 | RANJIT PAL        | ASUTOSH COLLEGE        | Ranjit Pal         |
| 14 | ARGHA ADHYA       | JADAVPUR UNIVERSITY    | Arghya Adhya.      |
| 15 | SUBHOJIT KARMAKAR | NETAJI NAGAR COLLEGE   | Subhojit Karmankar |
| 16 | MONOJIT SAHA      | SCOTISH CHURCH COLLEGE | Monojit Saha       |
| 17 | KAOSIK BAN        | SCOTISH CHURCH COLLEGE | Kausik Ban         |
| 18 | SATYAJIT BOSE     | BANGABASI COLLEGE      | Satyajit Bose      |

SPOT REGISTRATION

| SI. NO. | NAME                | COLLEGE          | SIGNATURE               |
|---------|---------------------|------------------|-------------------------|
| 19      | SAYAN DEY           | SURENDRANATH EVE | <i>Ses</i>              |
| 20      | ALEEV NEIL MANNA    | SNEC             | <i>Amanna</i>           |
| 21      | Rupak Mukherjee     | Sneec            | <i>Rupakm</i>           |
| 22      | TANMOY GHOSWAMI     | SNEC             | <i>SNEC (SITP/15)</i>   |
| 23      | SNEHARISH HALDER    | "                | <i>Sneharish halder</i> |
| 24      | FARZANA HASMAT KHAN | "                | <i>Far</i>              |
| 25      | Gulapsha Khatoon    | "                | <i>Gulapsha Khatoon</i> |
| 26      | RABI SHARMA         | S.N.E.C.         | <i>Rabi Sharma</i>      |
| 27      | Upendra Pandey      | Y                | <i>Upandey</i>          |
| 28      | Sanjit Pariya       | "                | <i>Sp</i>               |

|    |                     |              |                            |
|----|---------------------|--------------|----------------------------|
| 29 | ARNAB GHOSHAL       | S. EVE. COL. | <i>Arnab Ghoshal</i>       |
| 30 | MD. HAYAT           | SNEC         | <i>Md. Hayat</i>           |
| 31 | DIBAKAR MODAK       | Y            | <i>DMODAK</i>              |
| 32 | Sumit Kumar         | "            | <i>Sumit Kumar</i>         |
| 33 | SANJIB KUMAR PASWAN | " "          | <i>Sanjib Kumar Paswan</i> |
| 34 | MAYANK PRASAD SHAW  | "            | <i>Mayank P. Shaw</i>      |
| 35 | RAJ SINHA           | "            | <i>Raj Sinha</i>           |
| 36 | Hiranjit Patra      | "            | <i>H Patra</i>             |