

# SONOPANT DANDEKAR ARTS, V.S. APTE COMMERCE AND M.H. MEHTA SCIENCE COLLEGE, PALGHAR

# **DEPARTMENT OF CHEMISTRY**

# Certificate Course Instrumental Analysis

Under the Aegis of

Centre for Excellence and Innovation

Academic Year: 2019-2020

Prof. Mahesh Deshmukh CFEI - Chairman Dr. Kiran Save Principal

# **Certificate course in Instrumental Analysis**

## Report 2019-2020

## **INDEX**

| Sr. No. | Particular                          | Page No. |
|---------|-------------------------------------|----------|
| 1       | Introduction and Title of Programme | 2        |
| 2       | Permission Letter                   | 3        |
| 3       | Syllabus                            | 4-5      |
| 4       | Notice for students                 | 6        |
| 5       | Student Enrollment List             | 7-14     |
| 6       | Attendance Report                   | 15-21    |
| 7       | Report                              | 22       |
| 8       | Feedback Form                       | 23       |
| 9       | Photo                               | 24       |
| 10      | Sample Certificates                 | 25-27    |

## Certificate course in Instrumental Analysis

**Duration:** 42 hours

Aim: To study the instrumental analysis.

### **Features of the course:**

- Specially designed to give hands on training on instruments used in laboratory.
- Customized for the industry.
- Delivered by faculty of department of chemistry as well as experts from the industry.

### **Objective:**

- To acquire knowledge about instrumentation.
- To develop skills required in industries.

### **Eligibility:**

Any science students having chemistry as a subject.

### **Mode of Examination:**

Theory: Assignment will be provided.

Practical: Practical exam will be based on experiment performed during the course.

<u>Certification:</u> Certificate will be provided on the basis of practical examination.

#### **Learning Outcome:**

Students will acquire detail theoretical knowledge as well as practical experience about various laboratory techniques.

Date: 15th October, 2019

To,

The Principal,

Sonopant Dandekar Arts, V.S. Apte Commerce and

M.H. Mehta Science College,

Palghar

Subject: Approval for Certificate Course in Instrumental Analysis (S.Y.B.Sc.)

Respected Sir,

For developing instrumental skills in students, we have designed certificate course for the class of S.Y.B.Sc. The course is aimed at enhancing skills and knowledge of students in basic instrumental techniques. This course will benefit the students by providing them with an opportunity to develop their expertise in this area. Their instrument and apparatus handling skills will be improved by the Certificate Course in Instrumental Analysis for S.Y.B.Sc. course.

The Certificate Course will be offered in the month of November, 2019

The details are provided along with this letter. I request you to kindly grant the permission to start this course.

Thanking you.

Yours faithfully

Dr. Suhas Janwadkar

Head, Department of Chemistry

### **SYLLABUS**

|   | Content               | Theoretical  | Practical   | Duration |
|---|-----------------------|--|---|----------|
| 1 | Chemical calculations | Normality Molarity Formality Molality Ppm Ppb Conversion of one unit to another.   | Problem-solving based on the theoretical concepts.                          | 4 hours  |
| 2 | Spectrophotometer     | Principle Block diagram Instrumentation Beer-Lambert`s law   | Standardization of spectrophotometer.                                       | 4 hours  |
| 3 | Potentiometer         | Principle Study of electrodes (Indicator and Reference electrode) Role of salt bridge Graphical methods for determination of end points Working Error calculations | 1.Standardization of potentiometer. 2.Assay of vanillin potentiometrically. | 4 hours  |
| 4 | pH meter              | Principle Study of electrode (Combined glass electrode) Graphical methods for determination of end points Working  | Standardization of pH meter.  | 4 hours  |
| 5 | Colorimeter           | Principle Block diagram Instrumentation Beer-Lambert`s law Error calculations  | Determination of Glucose by folin-wu method.                                | 4 hours  |
| 6 | Conductometer         | Principle Study of electrodes Graphical representation for determination of end points Working   | Standardization of conductometer.   | 4 hours  |

| 7 | Complexometric titration | Types of titrations Primary standard and Secondary standard Stability constant Selectivity in complexometric titration Indicators Error calculations | 1.Estimation of ZnSo <sub>4</sub> in eye drops by complexometrically. 2. Determination of hardness of water complexometrically. 3. Determination of calcium in calcium lactate tablet by complexometric titration. | 8 hours  |
|---|--------------------------|--|--|----------|
| 8 | Estimation of Nitrogen   | Use of Kjeldahl flaskfor collection of nitrogen gas  | Estimation of nitrogen by Kjeldahl flask.  | 6 hours  |
| 9 | Redox titration          | Types of titrations Primary standard and Secondary standard Indicators Error calculations  | Assay of KMnO <sub>4</sub>   | 4 hours  |
|   | <b>Total Duration:</b>   |  |  | 42 hours |



## Sonopant Dandekar Shikshan Mandali's

# Sonopant Dandekar Arts, V. S. Apte Commerce & M. H. Mehta Science College, Palghar, Dist: Palghar ACADEMIC YEAR 2019-20

Date: 5/10/2019

## **NOTICE**

All the S.Y.B.Sc. students are hereby informed that their Certificate Course in Instrumental Analysis will begin from 4<sup>th</sup> November, 2019. Batch details are shared along with this notice.

Dr. Suhas Janwadkar

Head ,Department of Chemistry

# STUDENT ENROLLMENT LIST

### STUDENT ENROLMENT LIST

| ROLL NO. | NAME OF THE STUDENT          |              |
|----------|------------------------------|--------------|
| 1        | BORSE HITESH UMESH           |              |
| 2        | GUPTA POOJA DINESH           | To See       |
| 3        | GHARAT PREKSHITA CHANDRAKANT |              |
| 4        | PAGDHARE JANHAVI DEVANAND    |              |
| 5        | BARI SAKSHI MANOHAR          |              |
| 6        | BARI ASHWITA SUBHASH         | . '          |
| 7        | HUSSEN RABINAKHATUN ZAKIR    | 1            |
| 8        | PAWADE SEJAL HARISHCHANDRA   |              |
| 9        | BARI DIPTI BHALCHANDRA       |              |
| 10       | PAGDHARE SWARANGI SUBHASH    |              |
| 11       | ANGANE MINAL MANGESH         | 4            |
| 12       | PINGALE TEJASHREE GANESH     | 7            |
| 13       | KALE MADHU GANESH            | The state of |
| 14       | WANGA TEJASWI GANESH         | 1            |
| 15       | PATIL AMISHA MOHAN           |              |
| 16       | PATIL ADITI DATTATREY        |              |
| 17       | PATIL MAYURI KISAN           |              |
| 18       | PATIL TEJASVI ANANT          |              |
| 19       | TARE RUTUJA BHUPESH          |              |
| 20       | NAIK ADITI ANANT             |              |
| 21       | JADHAV MANSI SURESH          |              |
| 22       | SONA AARATI DAYARAM          |              |
| 23       | CHHEDA ARPIT MANISH          |              |
| 24       | SHERE AKASH GAJANAN          |              |
| 25       | PAWAR SWAPNIL SATYAWAN       | 1            |
| 26       | SAVANT ANIKET TUKARAM        |              |
| 27       | PANIGRAHY SWATI SANTANU      |              |
| 28       | MORE BABITA VIJAY            |              |
| 29       | THAKUR CHHAYA SUBODH         |              |
| 30       | SHARAMA MOHINI DHARMENDRA    |              |



| ROLL NO. | NAME OF THE STUDENT          |
|----------|------------------------------|
| 31       | PACHANGE DHANASHREE UDDHAV   |
| 32       | ADSUL SHRUTIKA DHANANJI      |
| 33       | LOKHANDE JYOTSNA BHARAT      |
| 34       | KAJALE PRASHANT BHAURAO      |
| 35       | PATIL DNYANESHVARI MILIND    |
| 36       | MEHER SHRUTI UMESH           |
| 37       | NAIK VRUSHALI NITIN          |
| 38       | GOUD KALPANA DILIP           |
| 39       | PATIL ANJALI LAXMAN          |
| 40       | SAVE KRUSHIK SACHIN          |
| 41       | PATIL JIDNESH PRADIP         |
| 42       | MORE ACHALA DEEPAK           |
| 43       | MASARE ANUJA POPAT           |
| 44       | SURYWANSHI RAGINI VIDHYADHAR |
| 45       | VADE SANJEET UMESH           |
| 46       | PATIL TANVI SANJAY           |
| 47       | RAUT VAIDEHI NIRAJ           |
| 48       | KHALIFA AYESHA NAJEEB        |
| 49       | SHAIKH SHAFAQUE MUSARRAT     |
| 50       | MAHAJAN YOGESH VILAY         |
| 51       | DHERE NISHA JALINDAR         |
| 52       | VINKAR SAPANA RAMESH         |
| 53       | BORASE BHAVESH DILIP         |
| 54       | SHINDE ANKIT BABASAHEB       |
| 55       | MACHHI KAUSHAL BHAGWAN       |
| 56       | VAZE SHUBHAM RAJESH          |
| 57       | THAKUR YADNYESH NARESH       |
| 58       | GAWAD ROHIT JAYESH           |
| 59       | PATIL ANIKET RAJENDRA        |
| 60       | BARAD SANJAY MAHADU          |



| ROLL NO. | NAME OF THE STUDENT          |
|----------|------------------------------|
| 61       | BATRA YOGESH RAMU            |
| 62       | PATIL MAYURESH MAHESH        |
| 63       | CHURI BHAGYESH VIVIEK        |
| 64       | SOGALE DAKSHATA SUNIL        |
| 65       | TANDEL TANMAY VISHWAS        |
| 66       | CHAUDHARI MAYUR RAJENDRA     |
| 67       | DAVANE SHIVANI NARESH        |
| 68       | PATIL KAUSTUBH PRAKASH       |
| 69       | KAILUKE NIMISHA KRUSHNA      |
| 70       | JANWADKAR HARDIK SUHAS       |
| 71       | PATIL PRAJWAL TUSHAR         |
| 72       | PATKAR AKSHAY MADHUKAR       |
| 73       | GADKAR POORNA SAINATH        |
| 74       | PUNJARA ANKITA SURESH        |
| 75       | AREKAR VIRAJ BHALCHANDRA     |
| 76       | MORE SRUSHTI ASHOK           |
| 77       | CHAMARE RIYA YOGENDRA        |
| 78       | MEHER SRUSHTI NILESH         |
| 79       | ADHIKARI PRATIKSHA SANTOSH   |
| 80       | PATIL SALONI SANTOSH         |
| 81       | BORSE NAMRATA MANOHAR        |
| 82       | BHOIR LALITA SHIVRAM         |
| 83       | MACHHI ASHWINI SUBHASH       |
| 84       | PATIL SAKSHI RAJESH          |
| 85       | BARI HARSHMI ARUN            |
| 86       | THAKUR SNEHA VINOD           |
| 87       | NAGAR ISHWAR SAUBHASHCHANDRA |
| 88       | SAROJ DEEPNARAYAN HAWALADAR  |
| 89       | DABHADE ANKUSH TUKARAM       |
| 90       | KOKATE PRIYANKA SHIVAJI      |



| ROLL NO. | NAME OF THE STUDENT          |
|----------|------------------------------|
| 91       | SHINDE NIKHIL ANIL           |
| 92       | PATHAK JYOTI MAHANAND        |
| 93       | SHARMA KOMAL SUSHIL          |
| 94       | YADAV ABHISHEK VIRENDRA      |
| 95       | ANSARI SHABANA YUNUS         |
| 96       | PATIL HRUSHIKESH RAMKRISHNA  |
| 97       | WAGHMARE AKSHATA TANAJI      |
| 98       | PATHAN SIDDHIKA DILAWAR      |
| 99       | VISHWAKARMA ANJALI MUNNALALA |
| 100      | GHUDE KAUSTUBHSUNIL          |
| 101      | DESHMUKH HARDIK TUKARAM      |
| 102      | REDDY NEHA DEVENDRA          |
| 103      | PAGI PRAVINA JAYAVANT        |
| 104      | MORE SNEHA JAYWANT05         |
| 105      | BHOIR RAJASHRI RAMESH        |
| 106      | TARE DAMINI KAMLAKAR         |
| 107      | BHOIR SAMRUDDHI KIRAN        |
| 108      | VAYADA NAMITA VASANT         |
| 109      | PATIL VIDHI VILAS            |
| 110      | GOWARI SANSKRUTI KISAN       |
| 111      | WANI YASH DHANRAJ            |
| 112      | CHAUHAN ANAND SARNATH        |
| 113      | TARE MOHIT ANIL              |
| 114      | ERANDE SANKET BABAN          |
| 115      | MAHADIK NIRANJAN SHRIKRUSHNA |
| 116      | RAUT AAKANKSHA SUNIL         |
| 117      | SANKHE BHAKTI SHYAM          |
| 118      | DHANMEHER GAURI NARENDRA     |
| 119      | DHANPAL SHUBHAM KRISHNA      |
| 120      | PATIL SIDDHARTH DINESH       |



| ROLL NO. | NAME OF THE STUDENT         | 20     |
|----------|-----------------------------|--------|
| 121      | SINGH ROHIT KUMAR BASHISTH  |        |
| 122      | YADAV MANISH VUAY,          | -70    |
| 123      | CHAURASIYA RAJESH BIRENDRA  | 1      |
| 124      | SHARMA SHRADHA SHIVSHANKAR  |        |
| 125      | DOKE PRITI PANDURANG        |        |
| 126      | KATKAR SHWETA SANDESH       | H      |
| 127      | GANIAVE PRIYANKA VALIBA     |        |
| 128      | NAIK UNNATI ANIL            |        |
| 129      | PATIL ADITI KONDYA          |        |
| 130      | SAGANE VIRAJ SHANKAR        |        |
| 131      | BHURKUD SAGAR SHANKAR       |        |
| 132      | PAWAR SUMIT RAMAKANT.       |        |
| 133      | RAUT MAYUR KAMALAKAR        |        |
| 134      | PATIL YADNESH MANIK         |        |
| 135      | PATIL HARSHALI BALWANT      |        |
| 136      | JADHAV ANKUSH SUKARYA       |        |
| 137      | PATIL ADITYA VAKESH.        |        |
| 138      | JADHAV SUDARSHAN MAHATMA    |        |
| 139      | CHAUHAN POOJA SHIVBRAT      | 11 311 |
| 140      | YADAV POOJA RAMAKANT        |        |
| 141      | KUSHWAHA SUNILKUMAR BHULAN  |        |
| 142      | KHAN ASIF MUNAWWAR          |        |
| 143      | PATIL MANESH SURESH         |        |
| 144      | VISHWAKARMA RINKU HEERARAM  | 4      |
| 145      | GUPTA ABHINANDAN VINODKUMAR | la V   |
| 146      | BHONE SAKSHI JAGDISH        | 1,15   |
| 147      | MACHHI CHANCHAL BHANUDAS    |        |
| 148      | YADAV POGIA SHIVDHANI       |        |
| 149      | PATIL MAYUR DNYANESHWAR     |        |
| 150      | MANDAL SACHIN SARWAN        | 177    |

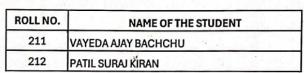


| ROLL NO. | NAME OF THE STUDENT          |       |
|----------|------------------------------|-------|
| 151      | MALI YOGESH SUNIL            | 1     |
| 152      | VACHAKAL NIKITA SHIVAR       | X.    |
| 153      | THAKARE PRATHAMESH UDAY      |       |
| 154      | SINGH SONAKUMAR PREM         | 100   |
| 155      | CHAUDHARI VISHAL DILIP       |       |
| 156      | MAHAJAN AKSHAY SANDIP        |       |
| 157      | GAIKWAD RUTUJA MAHADEV       | 17    |
| 158      | DHAPSHI AWDHESH SADANAND     | 0.    |
| 159      | SANKHE SWAPNIL PRALHAD       |       |
| 160      | NAIK NIKITA SUBHASH          | 1     |
| 161      | PATIL RAJSHREE VIJAY         |       |
| 162      | GHARAT PRATIK VINOD          | -     |
| 163      | SHIVGAN SAH(LI SUDHAKAR      | 1     |
| 164      | PATIL SHWETA NAMDEV          | 3     |
| 165      | PATIL RUCHITA PRAKASH        | i i   |
| 166      | MERE JITESH VIJAY            | 9     |
| 167      | MORE SAKSHI VINOD .          |       |
| 168      | MEHER UDDHAV RADHESHYAM      | 1     |
| 169      | PALKAR TEJAL CHANDRAPRAKASH  |       |
| 170      | SANKHE PRATHAMESH SURESH     | le la |
| 171      | SAHANI GUDIYA GULABCHAND     |       |
| 172      | JHA ABHISHEK SHASHIKANT      | 1     |
| 173      | CHAUHAN POGJA DURGAPRASAD    |       |
| 174      | CHAUHAN POONAM DURGAPRASAD   | V.    |
| 175      | MAURYA SONAMKUMARI RAMLAKHAN | 3     |
| 176      | PATIL RHUTUJA VINOD          | 10    |
| 177      | ADHIKARI VEDIKA BABAN        | 33    |
| 178      | RAVATE AAKASH TUKARAMA R     | 1     |
| 179      | YADAV KHUSHBU SANTLAL        | 1     |
| 180      | SHAIKH SHAHID MUSTAKIM       |       |



| ROLL NO. | NAME OF THE STUDENT          |
|----------|------------------------------|
| 181      | SOGALE BHAVESH SANTOSH       |
| 182      | YEOLE YASH YOGIRAJ           |
| 183      | JHA ROSHAN ARUNKANT          |
| 184      | MORE RAKSHAK RAKESH          |
| 185      | SHAIKH AAMIR ASIF            |
| 186      | PIMPLE SUCHI SANTOSH         |
| 187      | MAHARA NARU PADAMBHADUR      |
| 188      | MANE SHUBHANGI APPASAHEB     |
| 189      | TAWADE NEHA SANTOSH          |
| 190      | BEHERA AKASH PADMACHARAN     |
| 191      | THAKUR ROSHANI SHAILESH      |
| 192      | PATIL CHINMAY DEVANAND       |
| 193      | PATIL RUTIK RAJENDRA         |
| 194      | CHAKRABORTI NIKHIL RAVINDRA  |
| 195      | ARDAS PRATIKSHA GULAB        |
| 196      | ADHIKARI RIYA SUBHASH        |
| 197      | YADAV ABHISHEK INDRADEO      |
| 198      | DHANU SRUSHTI RAJESH         |
| 199      | GUPTA JYOTI MANOJ            |
| 200      | PATIL OMKAR SUBHASH          |
| 201      | MANE SULBHA DATTATRAY        |
| 202      | KHETAL SUDHAKAR, BALARAM     |
| 203      | YADAV SACHIN BADHU           |
| 204      | DAS HIRAN GAJENDRA           |
| 205      | BHOSALE VICKY VISHWANATH     |
| 206      | PATIL HIMANSHU MAHESH        |
| 207      | GHARAT NAMIT ASHOK           |
| 208      | PRAJAPATI KOMAL SANTOSHKUMAR |
| 209      | YADAV KANCHAN AVDHESH        |
| 210      | BANGAR NEHA SATISH           |







## ATTENDANCE REPORT

| 1  | S.Y.BSC 19-20                | Data     |             | 114  | 194      | 194.     | 100        | 100          | 100       | 100/       | 2/02/      | 113        |
|----|------------------------------|----------|-------------|--|----------|----------|------------|--------------|-----------|------------|------------|------------|
| 32 | 5.Y.BSC 19-20                | Date     | 7/1/2       | 08/10  | 91       | 08/2     | 03/4.      | 1/4.         | 121       | 00/        | 23/4       | 28/12/19   |
|    | NAME OF THE STUDENT          | OBouse   | (U) Brose   | OBOSE !  | UBOSE    | (Posse   | (URosel    | Bosse        | (VBOSE    |            | (UBORS     | (C) Ross-6 |
|    | BORSE HITESH UMESH           |          | +Bulmesh    | The second secon |          |          | Humesh     | Bunesh       |           | +Bmish     | Hamesh     | HBVmusb .  |
| 1  | GUPTA POOJA DINESH           | Aurta    | Burda       | Parta  | Ruyda    | Ruesta   | Heyter     | Royalo       | Runte     | Pourto     | Rounta     | Partin B   |
| 2  | GHARAT PREKSHITA CHANDRAKANT | cornegat | arheart     |  | Concept  | (Irhiza) | Cornettees | (cliphosof   |           | Gerhosed   |            | Chroscer   |
| 4  | PAGDHARE JANHAVI DEVANAND    | -Spp     | JOP         | app  | ADP      | 0        | -800       | -JDP         | -8DP      | 400        | ADP        | 200 dag    |
| 5  | BARI SAKSHI MANOHAR          | 5.Bari   | SiBari      | S. Bari  | s. Bari  |          | S. Bori    |              | S.Barl    |            | S. Bori    | S. Bari    |
| 6  | BARI ASHWITA SUBHASH /       | Sporni ( | SiBari      |  | Spani    | (span    |            | (Sport)      | Shori     | (Spoort    |            | (Shorri)   |
| 7  | HUSSEN RABINAKHATUN ZAKIR    |          | Diussen     | RHUSEN   | Rhuren   | RHUSEIN  | RHUSEM     | RHUSSEN      | 0         | RHUSSEN    | RHussen    | RHUKARY    |
| 8  | PAWADE SEJAL HARISHCHANDRA   | Apavede  | (H'prierale | (Apavale   |          | (Hepaule | paule      |              | Operede   |            | (A) Devere | Apaule     |
| 9  | BARI DIPTI BHALCHANDRA       |          | ~           |  | (DBerti  | OBati    | OBerei     | (Berti       | OBORI     | OBorri     | DROVEL.    | Opori Or   |
| 10 |                              | Spaging  | Course      | 6 Dumes  |          | (8 pcme  | -(Sporre   | Ula II Early | (8pm      | , (8mme    | ,          | Spride     |
| 11 | ANGANE MINAL MANGESH         | HALLE    | mma         | mma  | mma      | mma      | nma        | mma          | กาาว      |            | mma        | ma m       |
| 12 | PINGALE TEJASHREE GANESH     | Gomble   | (oplo) mle  | (eping)c   |          | apmyk    |            | Epingle      |           | Comple     |            | Apmole     |
| 13 | KALE MADHU GANESH            |          | MIKALE      |  | M. KALE  | MIKALE   | M-KALE     | MIKALE       |           | W. KALE    | 0          | M. KALE I  |
| 14 | WANGA TEJASWI GANESH         | Guardy   | (Gleenoly   |  | Quango   | Fluerone |            | Accord       | ( Colecum |            | Jesunge    | (gwan      |
| 15 | PATIL AMISHA MOHAN           | Popalel  | Roculet     |  | Bratel   |          | Rocald     | Boatel       | Rocald    | Reprodu    | Spale      | 1          |
| 16 | PATIL ADITI DATTATREY        | 10-      | AP          | AP-  | AP-      | AP-      | A .        | AP-          |           | P          | A          | # #        |
| 17 | PATIL MAYURI KISAN (         | gartie   |             | (Apostile  |          | Kpasju   | (Kauthe    | Epathe       |           | (K) PUH 12 |            | ERHIE (E   |
| 18 | PATIL TEJASVI ANANT          | E THPOHI | Dotpatio    | THRAFU   | Talfalil |          | TAPATU     |              | THPatil   |            | Whatu      | TAPAHI TA  |
| 19 | TARE RUTUJA BHUPESH          | RAT      | PBT         | RBT  | RBT      | RBT      | RIST       |              | RIBT      |            |            |            |
| 20 | NAIK ADITI ANANT             | Regails  | Phaile      | Proule   | Praile   | Praile   | Racile     | Phaile       | Gnail     | Prouls     | Con        | Byarr      |
| 21 | JADHAV MANSI SURESH          | Statlue  | Ssavore     |  | Stahne   | Game     | (8yan      |              | 8 your    | Mahal A    | 8 youre    | POSONA     |
| 22 | SONA AARATI DAYARAM          | POSON A  | POSONA      | ADRONA   | ADSONA_  | ADSON B  | ADSONA     | ADSONH       | HOSONA    | ADMONA     | AD SONA    |            |
| 23 | CHHEDA ARPIT MANISH          | SHEPE    | SHERE       |  | SHEPE    |          | SHERE      | SHERE        | 0         | SHERE      | SHEPE      | SHEPE      |
| 24 | SHERE AKASH GAJANAN          | GUBHER   | Garage      | Creshee  | asher    | Gisher   | Cesher     | Gesher       | Gisher-   | Copher     | Gisher     | SSP 8      |
| 25 | PAWAR SWAPNIL SATYAWAN       | 884      | 284P        |  | 88P      |          | S8b        | 884          | 888       | 880        | 888        | 0          |
| 26 | SAVANT ANIKET TUKARAM        | Bawant   | Rount       |  | Bavant   |          | Rayant     | Asavant      | Bouant    | Bavant     | Rayant     |            |
| 27 | PANIGRAHY SWATI SANTANU      | gw       | 8m          | Sm   |          | Sm       | SW         | 800          | Sm        | 800        | 0.11-      |            |
| 28 | MORE BABITA VIJAY            | BIMOR    | BMORE       | B; More  |          | BiMne    |            | B. More      | B. More   | Clau       | B. More.   | B. More    |
| 29 | THAKUR CHHAYA SUBODH         | thounk   | There       | Theme  | There    | Thure    |            | Thine        | -         | Thine      | - Wur      | L ( Mars   |

|        |                              |                    |             | - 1      |           |          |          |          | 1        | M       |         | 0) -    |                 |          |
|--------|------------------------------|--------------------|-------------|----------|-----------|----------|----------|----------|----------|---------|---------|---------|-----------------|----------|
| 31 F   | ACHANGE DHANASHREE UDDHAV    | Dhunch             |             | DHeirei  |           | Dheinish |          | Dheisano |          | Drance  |         | Oherna  |                 |          |
| 32     | DSUL SHRUTIKA DHANANJI       |                    | 10.00       |          |           |          |          |          |          |         |         | e. l.   | his town        |          |
| 33 L   | OKHANDE JYOTSNA BHARAT       | Notsa              |             | Hakha    |           | Jyot Sna |          | Jyotsna  |          | Jyotene |         | Juotem  | Jyotsner.       |          |
| 34     | AJALE PRASHANT BHAURAO       |                    |             |          |           |          |          |          |          |         |         |         | 0.04.10         | 9.121.0  |
| 35 F   | ATIL DNYANESHVARI MILIND     | D.M.P              | D-M-P       | D.M.P    | 0-4-1     | D.M.P    | D-MP     | Chila .  | DMP      |         |         |         | D.M.P<br>Smehez | Outline  |
| 36     | MEHER SHRUTI UMESH           | Sylehes            |             | Stehez   | SHEPES    |          |          | Stehes   | Stehe    | Arches  |         |         |                 | Marie    |
| 37     | NAIK VRUSHALI NITIN          | Mark               |             | Weik     |           | Walk     | Walk     |          | Malt     | Wait    |         |         | Nalk            | Work     |
| 38     | GOUD KALPANA DILIP           |                    | kalfana     |          |           | kalpona  | 100      |          | Kiclpino |         |         | kalcupa |                 | PARTY N  |
| 39     | PATIL ANJALI LAXMAN          | Anjali             |             |          | Alceli    | Apkeli   |          | Ankeli   |          |         | Anloti  | 1.0     | Andeli.         |          |
| 40     | SAVE KRUSHIK SACHIN          | <del>S</del> achin |             | sachin   |           | schina   |          | schina   |          | ischina | 00-2 1  | Sachin  | T bDo it        | J.P Pati |
| 41     | PATIL JIDNESH PRADIP         | JAMI               | J. PROFIL   | J. PPair |           | J. PPatu |          | J.PPaji  |          | J. PAHU |         |         | J. PPati        |          |
| 42     | MORE ACHALA DEEPAK           | Alline             | More        | More     |           | AMore    | More     | amore    |          | More    | Mac     | 0       | More            | More.    |
| 43     | MASARE ANUJA POPAT           | Bounat             | Muchel      |          |           | amen&    |          | Probe    |          | -Aness  |         | Pross   |                 | -Riners  |
| -      | SURYWANSHI RAGINI VIDHYADHAR | ROBPI              | Raini       | Raini    |           | Rajini   |          | Payini   |          | Rayin   |         | Ray ini | Rolal           |          |
|        | VADE SANJEET UMESH           | Fig. 70            | Acuted      |          | samet     |          | Scionet  |          | Sanna    |         | Sanbet  | -       | sanjet          |          |
| 46     | PATIL TANVI SNJAY            | THOU               | 18fatil     | TSPONU   |           | TSPOLY!  | TEPAH    |          | Tefatil  | Tefafu  | ***     | TSPATU  | Tspatu          |          |
| 47     | RAUT VAIDEHI NIRAJ           | Mant               | BUKE        | Want     | Whaus     | Whoub    | Mont     |          | Way      | Mout    | Ment    | Mode    | Maus            |          |
| 48     | KHALIFA AYESHA NAJEEB        | Ayesha             |             |          | Ayesha    |          | AYON     |          | AYE      |         | Ayesha  |         | Ayeshee-        |          |
| -      | SHAIKH SHAFAQUE MUSARRAT     | sheshe             |             | Charea   | Shake     | shorters |          | Cherles  |          | Sheep   |         | Shall   | Sheet           |          |
| -      | MAHAJAN YOGESH VIJAY         | mentida            |             | Maledan  |           | maleter  |          | malek    |          | malela  |         | majeno  |                 |          |
| -      | DHERE NISHA JALINDAR         | risher             |             | Michel   |           | Nisher   |          | Nesby    |          | Niche   |         | Nicha   | Alsher-         |          |
| 1000   | VINKAR SAPANA RAMESH         | 54Dune             |             | SCIDCING |           | Super    |          | SKIPER   | colon    | Seepah  |         | Supara  |                 |          |
| 100,00 | BORASE BHAVESH DILIP         | BBD                |             |          | B. B.D    | ,        |          | B. B.D   | - '      |         | B. B.D  |         | B.B.D           |          |
|        | SHINDE ANKIT BABASAHEB       | ABSUND             | ABSHIND     | ABSHTIND |           | ABSHIND  |          | ABSHIN   | +        | -       | ABSHIND |         | 1 1             |          |
| 55     | MACHHI KAUSHAL BHAGWAN       | Kashcel            |             | Koesheel |           | kasheel  |          | Kochal   |          | Keesha  |         | keishol | kasheel         |          |
| 56     | VAZE SHUBHAM RAJESH          | Shuban             |             | shu his  |           | shubam   |          | Shuhar   |          | Shuhar  | 1       | anulia  | Shubell         |          |
| 57     | THAKUR YADNYESH NARESH       | Fraze              |             |          | Thake     |          | Thor     |          |          | Ythore. | -       | YThor   | -               |          |
| 58     | GAWAD ROHIT JAYESH           |                    | R-Januar    |          | R-JG awad |          | R-Teramo |          | R-Jana   |         | Ritamon |         | R-Ja anona      |          |
| 59     | PATIL ANIKET RAJENDRA        | polike             |             | Anike    |           | Anikel   |          | phike    | 1        | Anile   |         | Ahike   |                 |          |
|        | BARAD SANJAY MAHADU          | Braud              | - I         | Bared    |           | Barad    |          | Borac    |          | Bayad   |         | Barad   | Board.          |          |
| 00     | טרוויוט קרוויורוו וויייוויים | - Cathada          | 1 specialis | - ALLINO |           |          | -        |          |          |         |         |         |                 |          |

| 61 | BATRA YOGESH RAMU            | Burramu  | BYRONU     | BIRAMU    | ANRMU     | BMRemy     | BMRanu             | Bmomu      | meany     | BMRana     | BNRamu     | BMfamu    | BmRamu    |
|----|------------------------------|----------|------------|-----------|-----------|------------|--------------------|------------|-----------|------------|------------|-----------|-----------|
| 62 |                              | MoMpatil |            |           | MMNahi    |            | MMOXAL             | (HodMo M   | MMpall    | (Anc) M.M. |            |           | Mampali   |
| 63 |                              |          | (Bohus     |           | (Behia)   |            | UBANXL             |            | (Behop    |            | UB Churis  |           | 1Byrat    |
| 64 | SOGALE DAKSHATA SUNIL        | CSD      | CD         | SSD       | SSD.      | SSD        |                    | SSD        |           | SSO        |            | SSA       | 55D       |
| 65 | TANDEL TANMAY VISHWAS        | ELL      | FIL-       | TIL       | -194      |            | ITU                |            |           | TTV        |            | TIV       | TIN       |
| 66 | CHAUDHARI MAYUR RAJENDRA     | Mikmais  | MRChord    |           | MRChow    | RAGIE      | MRChox             |            | MRchon    |            | MRIhon     |           | Machox    |
| 67 | DAVANE SHIVANI NARESH        | C. Ndava | "C.Ndavail |           | SoNdacam  |            | Sindavan           | Sinclare   |           | Salkkerven |            |           | SoNdavan  |
| 68 | PATIL KAUSTUBH PRAKASH       | Quili1   | (Posti)    | (R) pati) | RocHil    |            | Rosti1             |            | (Red)     |            | Bratile    | 18 patil  | (R) patit |
| 69 | KAILUKE NIMISHA KRUSHNA      | KKN      | KKN        | KKN       | KKN       | KKN        | a sunt             | KKN        |           | KKN        | -1         | KKN       | KKN       |
| 70 | JANWADKAR HARDIK SUHAS       | Toubus   | Thouse     | Trsuhan   | Thsuha    | Thouher    |                    | tischen    | Thruh     |            | hoshes     |           | Thu hors  |
| 71 | PATIL PRAJWAL TUSHAR         | 2.0      | T. Poati   |           | T. Ppatil |            | T. Ppatil          |            | T. Posti) |            | 7. Ppati)  | Topmil    | Top pati  |
| 72 | PATKAR AKSHAY MADHUKAR       | ARruler  | ARWAI      | Danli'    | ARul 11:  |            | ARUM!              | ARMUI:     |           | Abull      | ARWU!      |           | ARuhi"    |
| 73 | GADKAR POORNA SAINATH        | D. SGONO | PSCIAKA    |           | BAdd Kis  | p Shall re | P.S.Gradkin        |            | Psadar    |            | psga kg    | r PSGake  | RSGad ker |
| 74 | PUNJARA ANKITA SURESH        | Railar   | Doward     | Doures 5  | Dulasa    |            | B paya og          |            | @puy08    | Dawlog     | (A) pujarg | Apolar    | Daisa     |
| 75 | AREKAR VIRAJ BHALCHANDRA     | C.F.     | BASEKO     | -         | (BArekn   |            | BANCKO             |            | BAORK     |            | 1BASE KO   | VBAGE 16  | BASCK     |
| 76 | MORE SRUSHTI ASHOK           | S. Amax  | (Amore     | Samose    |           | SAMON      |                    | SAmore     |           | SAMOX      |            | SAMOR     |           |
| 77 | CHAMARE RIYA YOGENDRA        | Riga     | Riva       | Riva      |           | Riya       |                    | Riya       |           | Riya       |            | Riya      | Paya.     |
| 78 | MEHER SRUSHTI NILESH         |          | MANNER     | CMMehre   |           | Sannehea   |                    | S. Ninehor |           | Sonmetra   |            | SinJubyes |           |
| 79 | ADHIKARI PRATIKSHA SANTOSH   | B.       | AS_        |           | AS_       | 105_       | 1                  | B          |           | W.         | AC         | AC.       | AC        |
| 80 | PATIL SALONI SANTOSH         | sispetil |            | Sispati   | c.Sputt   | Suspati    | S. Spelt           | Saspan     | 1         | Sispat     |            | S. Spalt  |           |
| 81 | BORSE NAMRATA MANOHAR        | MABORS   | NMBoxed    | U 3/4     | MARIANIA  |            | NMBOOK             |            | NMBox     |            | NMBoase    |           | NMBOS     |
| 82 | BHOIR LALITA SHIVRAM         | Dahoix   | OBheir     |           | (Dalais   |            | Onlis              |            | (DAB) kiz |            | Dahois     | N . 1 .   | Wane!     |
| 83 | MACHHI ASHWINI SUBHASH       | Aculli   | Dulli      | Asmuli.   |           | Ashudii    | THE REAL PROPERTY. | Asinali    |           | Asudla     |            | Ashun     | Arhli     |
| 84 | PATIL SAKSHI RAJESH          | C. Radi  |            |           | C.Rpati   | S. Rochi   |                    |            | S. Rail   |            | S. R. Path |           | SiRpati   |
| 85 | BARI HARSHMI ARUN            | HABari   | SIBIAN     | ALA RUY   | -         | HABasi     |                    | 1480       | 1         | SHAB IN    | HABUS'     |           | HA BON    |
| 86 | THAKUR SNEHA VINOD           | Mina     | TOMPOOL    | Wingo     | 100       | Bringe     |                    | Wind       | - Byhox   | 1          | Tuinod     |           | TStinac   |
| 87 | NAGAR ISHWAR SAUBHASHCHANDRA | 7        | XTC        | NIS       |           | NIS        |                    | MIS        | NFS       |            |            | MS        | NIS       |
|    | SAROJ DEEPNARAYAN HAWALADAR  | SOL      | SOH        |           | SOH       |            | SOH                |            | SDH       |            | SDH        |           | 5.DH      |
| 88 | DABHADE ANKUSH TUKARAM       | Ankus    | 1          |           | Ankush    | 1          | Ankush             | Ankel      | hAnku     | Anku!      | 5          | -         | Ankush    |
| 89 | KOKATE PRIYANKA SHIVAJI      | Voce     | Ves        | KOG       | KRC       | KPG        |                    | KPC        |           | KPS        |            | KPS       | KE        |
| 90 | KOKATE PRITANKA SHIVAGI      | 145      | 145        | 1177      | 177       | 1112       |                    | -          |           |            |            |           |           |

|     |                              |  | -          |          |                  |  | )      |          |          | *         |           |          |
|-----|------------------------------|--|------------|----------|------------------|--|--------|----------|----------|-----------|-----------|----------|
| 91  | SHINDE NIKHIL ANIL           | Pohende  | Pohin      | Bhinde   | shond            | Ochinal  | Bhinde | Pshind   | Dat.     | Phinole   | 01.       | 1 Palin  |
| 92  | PATHAK JYOTI MAHANAND        |  | Jim Pothal |          | TMRothok         | -  |        | JAR that |          |           |           |          |
| 93  | SHARMA KOMAL SUSHIL          |  | Sk         | 8K       | -88-             | -SR  | -81    | -88      | -8K      | Methok    | JARathol  | 1        |
| 94  | YADAV ABHISHEK VIRENDRA      | Maday  |            | Ayarder  | Ayadew           | Ayada  |        |          | Ayordan  | Ayadav    | Atada     | -        |
| 95  | ANSARI SHABANA YUNUS         | -83  | 28         | 8        | 2                | R  | 28     | - Cares  | Z Coller | A Callo   | B         |          |
| 96  | PATIL HRUSHIKESH RAMKRISHNA  | H.P.R.   | H.P.R.     | H-P.R.   | H-P-R            | H.P.B  | H.P.12 | H.P.13   | 45       | HIRR      | ZD        |          |
| 97  | WAGHMARE AKSHATA TANAJI      | Arraham  | Awarhar-   |          |                  | Ausgher  |        | Herighen | FT and   |           | W 1       |          |
| 98  | PATHAN SIDDHIKA DILAWAR      | Sp   | SID        | SEE      | SPD              | SED  | SPD    | revigues | SED      | Miexegha  | Fluorigha | 1        |
| 99  | VISHWAKARMA ANJALI MUNNALAL  | Angalia  | Anali      | Anjali   | Anjali           | Anjew  | Aniell | Briell   | 900      | Anjali    | Anjall    | Tay (5)  |
| 100 | GHÜDE KAUSTUBHSUNIL          | Kamil  | Ksuni (    | Keunil   | 7.19             | Kaunil   | Keunil | Kecmil   | Heunil   |           | -         | N-3-M    |
| 101 | DESHMUKH HARDIK TUKARAM      | HORATH   |            |          |                  | HORDIK   |        | HARDIX   |          | HARDIT    | Keinil    | Kamil    |
| 102 | REDDY NEHA DEVENDRA          | ADRECCIU   | Modely     | MDReddy  | MReddy           | NoRedly  | MReddy | MRoday   | NDRoedly | MDReedy   | NDReokly  | NDRoddy  |
| 103 | PAGI PRAVINA JAYAVANT        | Bagi   | Procai     | Ragi     |                  | Piggi  |        |          | 1        | MARKET    |           | Manuel   |
| 104 | MORE SNEHA JAYWANT           | Zmore  | July       | amore    | Roma 40          | Rmore  | Broke  | Piagi    | Picegi   | 0_        | Pjagi     |          |
| 105 | BHOIR RAJASHRI RAMESH        | PEWELL   | Pishce-    | etshese. | P. F. Chrise     | Smore  | Brote  | Prohose  | Smolt    | Smore     | Bonor     | -        |
| 106 | TARE DAMINI KAMLAKAR         | Digine -   | -          | Dense    | Dlase            |  | Dhre   | -        | PASMER   | P-TSHEE   |           | -        |
| 107 | BHOIR SAMRUDDHI KIRAN        | Krean  | Kirsan     | Kicas_   | tital            | N. Calabia   | tien   | Dase     | than     | Dane      | Distre    | Derre 1  |
| 108 | VAYADA NAMITA VASANT         | Nahvous  | Namire     | Pieces   | haming           |  | Nama)  |          | Marina   | picas     | NOWNIAS . |          |
| 109 | PATIL VIDHI VILAS            | matel  | Qualil     |          | Daritel          | Opatel   |        | apalul   | -        |           | A         | No Pe    |
| 110 | GOWARI SANSKRUTI KISAN       | The same of the sa | C I I I    |          | Vacan            | CVP av El  | Opald  | Abana    | Spatell  |           | Spalis    |          |
| 111 | WANI YASH DHANRAJ            | Dovania  | Durchi     | Dwani    | Dwani            | Howani   | Dwani  | Un.      |          | 10-       | 0 - 1     |          |
| 112 | CHAUHAN ANAND SARNATH        | O. Marine  | green.     | Ducem    | Dealt            | Gradin   | amount | Dwani    |          | Descri    | Hermi     |          |
| 113 | TARE MOHIT ANIL              | Moce   | Wiels      | More     | Moto.            | More.  | FUNCE  | Mot      | Mot      | Ator      | frier.    | Maco (   |
| 114 | ERANDE SANKET BABAN          | Senker   |            | Sampet   |                  | Sankel   |        | -        |          |           |           |          |
| 115 | MAHADIK NIRANJAN SHRIKRUSHNA | nahastra   |            |          | feed of the same | ourges.  | Somtet | Sanket   | sanket.  | Sankel    | Sanket    | Sunter 5 |
| 116 | RAUT AAKANKSHA SUNIL         |  |            | Paut.    |                  | AROCH  | ARgut  |          | 77       |           |           |          |
| 117 | SANKHE BHAKTI SHYAM          | -  |            | Phote    | Protein .        |  | Phakri | manh     | Braut    | Bracki    | Paul      |          |
| 118 | DHANMEHER GAURI NARENDRA     | 1  | cour!      | GUCLE    | GNICO            |  | cruact | Elasti-  | -        |           | sharp.    |          |
| 119 | DHANPAL SHUBHAM KRISHNA      | Skohanna   |            |          |                  | Control of the last of the las |        | h.       |          | GAUEL     | course    | 1 . 100  |
| -   | PATIL SIDDHARTH DINESH       |  | Epali      | 0 . 1    | 50 hungal        | Manpal   |        | Dhenza   |          | \$Ohenpal | _         | 3Dhanpal |

| 21  | SINGH ROHIT KUMAR BASHISTH  | BAAN_    | Dans   | Part        | Dext!  | Deilo.   |         |         | Pehr     | Davie    | PSU      | Davia    |          |                    |
|-----|-----------------------------|----------|--|-------------|--------|----------|---------|---------|----------|----------|----------|----------|----------|--------------------|
|     |                             |          | well   |             | Deule  | WILL     |         | Weeke   |          | rathe    | -        | myhur    | Phu      |                    |
|     | CHAURASIYA RAJESH BIRENDRA  | Push     | Rush   |             | Ruigh  |          | Buh     | Ruh     | QUR      | Ruck     | BUR      | BUR      | BUR      |                    |
| 24  | SHARMA SHRADHA SHIVSHANKAR  |          | Buhman   | -           | Burna  |          | Behanne | antonce |          | Gaharan  | Gar-ming |          |          |                    |
| 25  |                             | Richa    |  |             | Bute   |          | Double  |         | Bede     |          | But      |          | pure     |                    |
| 126 | KATKAR SHWETA SANDESH       |          | Quite  | A THE PARTY | Buler  |          | 3)relle |         | Duts     |          | Date     | aute     | Berust   |                    |
| 127 | GANJAVE PRIYANKA VALIBA     | Bullhk   | Quirka   | Peironk     |        | YEHNIA   |         | Pritake | Praytuck |          | Reigalla |          | Duryanta |                    |
| 128 | NAIK UNNATI ANIL            |          | unati  |             |        | unnet    |         | unuti   |          | unati    | uniti    |          | unti     |                    |
| 129 | PATIL ADITI KONDYA          | CHASA    |  | 4,4         | tica   |          | HICH    |         | Doiti    |          | itia.    |          | Aoit .   | मिन्नों भारती हैं। |
| 130 | SAGANE VIRAJ SHANKAR        | Wiges    |  | VISOS       |        | 1/18al   | 1/1804  | 3       | V1323    |          | News     | V3205    | 112as    | Vises, Vi          |
| 131 | BHURKUD SAGAR SHANKAR       | Grups    | The Party of   | Seyes       |        | Serys    |         | suge    | sough    | suys     |          | Soye     | suge     |                    |
| 132 | PAWAR SUMIT RAMAKANT .      | DURALI   | iluse  | DEN         | -      | andin    |         | Tradel  | Dally    | TAN      |          | Pauli    | Thuri    |                    |
| 133 | RAUT MAYUR KAMALAKAR        | Mayun    | Mayuz  | Mayuz       | Mayuz  |          | Mayuz   |         | Mayuz    |          | Mayuz    | Mayur    | Mayu2    |                    |
| 134 | PATIL YADNESH MANIK         |          | Druk   | Ruk         |        | Que      |         | Rux     |          | Ruk      |          | Juk      | Pulc.    | Juk Ru             |
| 135 | PATIL HARSHALI BALWANT      | MONH     | (Haute)  | - Const     | Pusho  |          | Pute    | Alutu   |          | Pourt    |          | HUNEW    | (Hubut   |                    |
| 136 | JADHAV ANKUSH SUKARYA       | Ankiel   | Ankish   | Antus       | 4,100  | Anker    |         | ANKUT   |          | Boker    |          | Ankus    | Anky     |                    |
| 137 | PATIL ADITYA VAKESH .       | Rugar    | Out.   | nul         | Rul    |          | Dur     |         | Rur      | Dur      | Rug      |          | Puri     |                    |
| 138 | JADHAV SUDARSHAN MAHATMA    | T.A.W    | Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Own | T.S.M       | 1.5. M | T.S.M    | 7.6.M   | T.SM    | 7 2      | 7.5M     |          | 7.5.M    | 4. 5M.   |                    |
| 139 | CHAUHAN POOJA SHIVBRAT      | 20070    |  | _           | -      | POUT     | 10      | 9       | 20070    | 20070    |          | boot 0   | ppolo    | bools book         |
| 140 | YADAV POOJA RAMAKANT        |          |  | P. R. yalı  |        | p. reggo |         |         | P. Rud   | P. Rud   | PRud     | p. R-wd  | p. Rude  |                    |
| 141 | KUSHWAHA SUNILKUMAR BHULAN  | Vanda    | Kuik   |             | Kuil   |          | Rull    | Kurk    | KuB      | Kus      |          | Kul      | kung     |                    |
| 142 | KHAN ASIF MUNAWWAR          | DSF      | T CONTRACT   | DRF.        |        | Bet      | D8F     |         | 180      |          | DSF      | ASF      | DSF      | asf                |
| 143 | PATIL MANESH SURESH         | mudel    | Reve   | Swell       |        | Mult     | ,       | firet   |          | mout     | 0        | aut      | Nepall   |                    |
| 144 | VISHWAKARMA RINKU HEERARAM  | Riku     | Renk   |             | Rinky  |          | Rink    |         | Rondo    |          | Runki    |          | Rully    | Ruske              |
| 145 | GUPTA ABHINANDAN VINODKUMAR | Dug.     | Deute  | ,           | Duides | Quita    |         | Audo    |          | Route    |          | Accete   | Delte    |                    |
| 146 | BHONE SAKSHI JAGDISH        | SSIbhene | Sabhone  |             |        | Sightme  |         | søbhme  |          |          | Sethone  | salphone |          |                    |
| 147 | MACHHI CHANCHAL BHANUDAS    | Burnochi | grown  |             |        | amaeni   | amach   |         | Camochi  | Omeelin  |          |          | amachi   |                    |
| 148 | YADAV POOJA SHIVDHANI       | Jadaw    | Packar   | Gladav      | Padav  | gachou   | Glader  | Daelau  | :        | Gladav   |          |          |          |                    |
| 149 | PATIL MAYUR DNYANESHWAR     | Mayur    | Bayler   | Maryliz     | Moyer  | Mayer    | mayu    | mayur   | Magi     | Mayur    | Mayur    | Mayeer   | Mayer    |                    |
| 150 | MANDAL SACHIN SARWAN        |          |  |             |        | S&manddd | Smardel |         | Smardal  | Semanda. |          | S&manda  | 58mandd  | 4                  |
| 1   | Settlement of the co        |          |  |             |        |          | -       | N D     | -        |          |          |          |          | 109 3              |
| X   |                             |          |  |             |        |          |         |         |          |          |          |          |          | 1000               |

|     |                         |                        | 9         |           |           |                 | TELL DE     |          |                 |  |              |         |      |
|-----|-------------------------|------------------------|-----------|-----------|-----------|-----------------|-------------|----------|-----------------|--|--------------|---------|------|
| //  |                         |                        |           |           |           |                 |             |          |                 |  |              |         |      |
| 151 | MALI YOGESH SUNIL       | Joseph                 | Hogean    | 400012    |           | 1 10 A 10 20 10 | Morest      | MILLERAN | Jogesh          |  | 4 gen        | im.     |      |
| 152 | VACHAKAL NIKITA SHIVAJI | Vikita                 | Nikita    | Nikita    | Nikita    | Nikita          | Nikitá      | Nikita   |                 | Dikita   |              | Nikita  | 160  |
| 153 | THAKARE PRATHAMESH UDA  | AY.                    |           |           |           |                 |             |          | A Statum-I      |  | and the same |         |      |
| 154 | SINGH SONAKUMAR PREM    | Diplo                  | F-1-1-1-1 |           |           |                 | THE WILLIAM |          | HOLDER.         |  |              |         |      |
| 155 | CHAUDHARI VISHAL DILIP  | Ishas                  | Until     | - RAGO    | ishal     | UIZNO           | vistes      | cistal   | VISUA           | visha  | victe        |         |      |
| 156 | MAHAJAN AKSHAY SANDIP   | Stareban_              | At weligh |           | ACMUNEA_  |                 |             |          | Acmahas         | mahop  | - Lightnak   |         |      |
| 157 | GAIKWAD RUTUJA MAHADEN  | V                      |           |           |           |                 |             | 7        |                 |  |              | 130     | - 17 |
| 158 | DHAPSHI AWDHESH SADANA  | AND Adams              | 2 Aphaps  | L         | Aphapsho  | Achaete         |             | Mapshi   | Appendix        | 4  | 160          |         |      |
| 159 | SANKHE SWAPNIL PRALHAD  |                        |           | Smalling  |           | SUMPAN          | _           | Swapans  |                 | augus  | -            |         | 1    |
| 160 | NAIK NIKITA SUBHASH     | MULL -                 | Niru      |           |           | wikid           |             | Nikotep  | . MOUR          | pición   | S COL        | pikae   | -    |
| 161 | PATIL RAJSHREE VIJAY    | Dowca                  | Pause-    | RISHRE    | RISHER    |                 | RICHTER     |          | PTSNES          |  | RISHER       |         | PIC  |
| 162 | GHARAT PRATIK VINOD     | Deatik                 |           |           | maria     |                 | pranic      |          | PEOPIK          | The state of the s | Frank        | prank   | -    |
| 163 | SHIVGAN SAHILI SUDHAKAR |                        |           |           |           |                 | 1           |          |                 |  |              |         |      |
| 164 | PATIL SHWETA NAMDEV     | swell                  | smale     | cuept     |           |                 | Swell       | Swarg    | Distribution of | - Smell  | Sweld        |         |      |
| 165 | PATIL RUCHITA PRAKASH   | D-                     | - PB-     | Par I     |           | AD.             | PD.         | 80-      | PD              | PD   | -//          |         |      |
| 166 |                         | May                    | witay     | Unay      | utray     | Organe -        | vitar       | Signy    | Var             | Virago   | vitay.       |         |      |
| 167 | MORE SAKSHI VINOD       | Zels W                 |           | Seles (1) | Sabsh     | - Toles W       | - '         | Soleshi  | ,               | Soloshi  | Salash       |         |      |
| 168 | MEHER UDDHAV RADHESHY   | AM                     |           |           | mover     | mence           |             | brever   |                 | homes  |              | Auch    |      |
| 169 | PALKAR TEJAL CHANDRAPRA | KASH                   | Total     | -         | "Pra      |                 | Total       |          | Telay           |  | Terq         | 700     | -    |
| 170 | SANKHE PRATHAMESH SURE  | SH                     | Surach    | survel    | Suciola   | sureeb          | SURCER      | guzzen   | suresh.         |  | greet.       |         |      |
| 171 | SAHANI GUDIYA GULABCHAN | ND                     | CHEMINA   | Gudises   | Gudiya    |                 | Gudina      |          | Gudina          |  | Gubliya      | Coudin  | Gue  |
| 172 | JHA ABHISHEK SHASHIKANT |                        | A-S-J     | A.S.J     | A.S.J     |                 | A.S.J       |          | A.S.J           |  | A.S.J        |         | A.   |
| 173 | CHAUHAN POONAM DURGA    | PRASAD                 | pachavaun | Benavar.  | pachavar. | bornaser        | DOCTORON -  | POCHAVEM | - portravell -  | bechanase  | padresay.    |         | 9    |
| 174 | MAURYA SONAMKUMARI RA   | MLAKHAN                | SPYO      | SPM       | SWP       | SMA             | Jang-       | SWE      | -ame            | SIMP   | -Sval        | ave     | -31  |
| 175 | CHAUHAN POOJA DURGAPRA  | NAME OF TAXABLE PARTY. | 10000     | Poold     |           | Dola            |             | Poold    | -RODICI         |  | 1000ja       | -       | Po   |
| 176 | PATIL RHUTUJA VINOD     | Rettil                 | Pertil    |           | Pertil    |                 | Rentil      | Robbel   | Restil          | Restil   | Restil       | 167 591 | Pert |
| 177 |                         | vedika                 |           | ved ita   | Vedika    | Vedika          |             | vedika   | Wedika          |  | Vedilca      |         | vec  |
| 178 |                         | AR                     | AR        | A.R       |           | AR              | AR          | AR       |                 | AR   | AR           | AR      | A    |
| 179 | YADAV KHUSHBU SANTLAL   | Hoolew                 | Golle     | Youleus   |           | Depleell        |             | Japley   | Heidlan         | Spedens  | Heardard     | Yeplew  |      |
| 180 | SHAIKH SHAHID MUSTAKIM  |                        | sheifuld  | Shewid    |           | sahid           | 21          | sanid    |                 | Schid  | salve        | Bellid  | Α.   |
| 181 | SOGALE BHAVESH SANTOSH  |                        | Bhuvesh   | Bheush    | Bhewesh   |                 | Bhewesh     | Bhuvesh  |                 | Breven   | Bhewsh       |         | Bhu  |

| 182 | YEOLE YASH YOGIRAJ           | 40010    | dede    | Yeole    | 90010     | 40010      |             | Yeole  |          | Yeale        | Yeole   | Charle  | LePole  | Seole.             |
|-----|------------------------------|----------|---------|----------|-----------|------------|-------------|--|----------|--------------|---------|---------|---------|--------------------|
| 183 | JHA ROSHAN ARUNKANT          |          | RAIba   | Jeore    | RATha     | RATHO      | 70.00       | Jeore  |          |              | RATTHE  |         | delote  | SOLE               |
| 184 | MORE RAKSHAK RAKESH          |          | Pomoto  |          |           | Romor      |             | Rimos  | -        | Rimos        |         |         | Runore  |                    |
| 185 | SHAIKH AAMIR ASIF            | Shoilth  | 4       | dreith   | Carrie    | Sheikh     | dente       | The contract of the contract o |          | Shelt        |         |         |         | shorith shorter    |
| 186 | PIMPLE SUCHI SANTOSH         | Rial     | Rul     | SMELTER  | Rul       | Pull       | Rue         |  | Rul      | OKUK         |         | Deul    | Reul    | Drawin ( Slow K.)  |
| 187 | MAHARA NARU PADAMBHADUR      | 100      | 00-0    | Makaso   | Pucce     | 700-       | Mahare      |  | Pakara   |              | Mahana  |         | Rohana  | Phopon Pa          |
| 188 | MANE SHUBHANGI APPASAHEB     |          | Roman   |          | Smoure    | 3.7        | 8 mars      |  | Amens    |              | B)man   |         | Amana   | in interest letter |
| 189 | TAWADE NEHA SANTOSH          |          | Delha   | -        | Doha      | Deha       | Deha        | Neha   | -        | Neha         | N KITU  | Reha    | Deha    |                    |
| 190 | BEHERA AKASH PADMACHARAN     | Buck     | Po Me   | Bulo     | -         | -          | - Committee | Bup  | -        | Bull         |         | But     | Bull    |                    |
| 191 | THAKUR ROSHANI SHAILESH      | =        | 1000    | Tury     | Dieg      |            | 7           | - Jacob  | Day      | 1720         |         | iacci   | -       | . 4                |
| 192 | PATIL CHINMAY DEVANAND       | emalil   | Quegit  | E DOAL   | Dupe Oll  |            | Questi      | Quesil   |          | apal         | Quell   |         | Opabil  |                    |
| 193 | PATIL RUTIK RAJENDRA         | Rufil    | e yater | 2-11     |           | R+i1       | Ril         | Rtil   |          | Ril          | Bil     | Rtil    | A POST  | Rtil Rtil          |
| 194 | CHAKRABORTI NIKHIL RAVINDRA  | Ruk      | CRUR    |          | CRUK      | <u> </u>   | Ruk         |  | CRIP     |              | IDUR    |         | COUR    |                    |
| 195 | HARDAS PRATIKSHA GULAB       | HGOUGH   | 1       |          | Have      | Hausel     | Court       | Hazel  | Hused    | CAMP         | Hard    | Hued.   | Hued    | smad Ha            |
| 196 | ADHIKARI RIYA SUBHASH        | Piace    | Richa   |          | Riva      | 7 (100,000 | Riya        | reace  |          | Ri49         | Rivea   | 1-1-4-6 | Rilla   | torace blu         |
| 197 | YADAV ABHISHEK INDRADEO      | Ymud     | Lond    |          | Just!     |            | Leule       | Lund   | Lud      | 0            | Yund    | Lund    | June    |                    |
| 198 | DHANU SRUSHTI RAJESH         | Sephicon |         | SKDbany  | SRDbonu   | -          |             |  | SPANOU   | Bohunu       | Spohany |         | Saphane |                    |
| 199 | GUPTA JYOTI MANOJ            | Thursta  | Hampla  | Toubla   |           | Proupta    |             | (foreyolg  | Louple   | Laupka       | 0000000 | Speepta | (Layoki |                    |
| 200 | PATIL OMKAR SUBHASH          | OMKax    | 001     | OMKOS    |           | OMkar      | OMKor       |  | OMKax    | <b>OMKas</b> | -       | DMKax   |         | OMKGE OMI          |
| 201 | MANE SULBHA DATTATRAY        | mane     | mane    | Mane     | Mane      |            | Mane        | Mane   |          | Mane         | Mane    |         | Mane    |                    |
| 202 | KHETAL SUDHAKAR. BALARAM     |          | any     |          | m         |            | un          | -  | Mu       |              | In      | in      | - m     |                    |
| 203 | YADAV SACHIN BADHU           | Jeelw    | yan     | yan      |           | cean       |             | yar  |          | yan          |         | you     | ejaut   | your yo            |
| 204 | DAS HIRAN GAJENDRA           | Deva     | Aus     |          | DUA       |            | DIM         | anna   | 300      |              | ans     |         | ama     | 0                  |
| 205 | BHOSALE VICKY VISHWANATH     | Repeate  | Whesh   |          | vel thest | Mohale     | Obher       |  | Pother   |              | Where.  |         |         | 1000               |
| 206 | PATIL HIMANSHU MAHESH        |          | No.     |          |           |            | MORNIN      |  |          |              |         |         |         |                    |
| 207 | GHARAT NAMIT ASHOK           | niet.    | poset   | posent   | Alet      | AVEL       | ANGEL.      | AVEL   | West     | AST LA       | ANGEL.  |         | ENLET   | Linu               |
| 208 | PRAJAPATI KOMAL SANTOSHKUMAR | Kaml     |         | Jacanh   |           | word       | kom         | Keen   |          | mond         | Koul    |         | kon     | Kond Ran           |
| 209 | YADAV KANCHAN AVDHESH        | Kanch    | Kinch   |          | Kuchi     | Karch      |             | kerch  | The last | kuch         |         | Rihan   | Kurch   | Kach               |
| 210 | BANGAR NEHA SATISH           |          | Willer  | MERCE    | Nagu      |            |             | Mena   |          | (1Bell       | Mung    | KBerg   | MRIAL   | MBlig              |
| 211 | VAYEDA AJAY BACHCHU          |          | VBBUL   | 2        |           | Buch       |             | But  | vBul     |              | Bulle   | WRIL    |         | 0                  |
| 212 | PATIL SURAJ KIRAN            |          | Boale   | (Sporte) |           | Spatel     |             | Brotel   |          |              | (Spate  |         | Spectif |                    |

### **SUMMARY REPORT**

Certificate Course in Instrumental Analysis was conducted for the students of S.Y.B.Sc. Students were trained for basic handling of apparatus, chemical calculations, preparation of standard solutions.

A certificate course in instrumental analysis provides several benefits to learners. It enhances their skills and knowledge in the field of chemistry.

The course helps to develop a solid understanding of various analytical techniques and methods used in the laboratory and theoretical concepts. Learners gain hands-on experience in using instruments and correct way to handle apparatus.

A certificate in this course adds an advantage to learner's resume. Various sophisticated instruments are widely used in industries, acquiring skills in this area can makes the learner highly relevant and valuable in these sectors, as they can immensely contribute to various areas in the industry.

Course Commencement: 04/11/2019

Course Completion: 28/12/2019

Number of students enrolled for the course: 212

Number of students completed the course: 212

Duration of the course: 42 hours

Dr. Suhas Janwadkar

**HOD - Chemistry** 

### FEEDBACK FORM

## Sonopant Dandekar Arts, V.S. Apte Commerce and M.H.Mehta Science College, Palghar

Internal Quality Assurance Cell

Feedback Form on Certificate Course for Undergraduate in Chemistry

| Name: Poxi Sokshi M | 26:12.2019 |
|---------------------|------------|
| Class: GV Rec       |            |

Roll No.: \_\_\_\_\_

| Sr.No. | Parameters   | Strongly<br>Agree | Agree | Neutral | Disagree | Strongly<br>Disagree |
|--------|--|-------------------|-------|---------|----------|----------------------|
| 1      | After completing this course, my knowledge in the topic has increased. |                   |       |         |          |                      |
| 2      | This course increased my interest in chemistry related topics.         |                   | 1.245 |         |          |                      |
| 3      | The teacher communicated clearly and effectively                       |                   |       |         | 4        |                      |
| 4      | The teacher encouraged feedback, class participation and interaction   |                   |       |         |          |                      |
| 5      | The course started and ended on schedule                               | V                 |       | /       |          |                      |
| 6      | Course objectives were clearly presented                               |                   |       |         |          |                      |
| 7      | Course material was well prepared                                      |                   |       |         |          |                      |
| 8      | The course developed my understanding of concepts and principles       |                   |       |         |          |                      |

S. Goli Signature of student

## **ACTION PHOTOGRAPHS**



ASST.PROF. MADHURI VARMA DEMONSTRATING COMPLEXOMETRIC TITRATIONS

### **SAMPLE CERTIFICATES**

# SONOPANT DANDEKAR SHIKSHAN MANDALI'S Sonopant Dandekar Arts, V.S. Apte Commerce & M.H. Mehta Science College, Palghar



This is to certify that

Ms. MORE BABITA VIJAY

had successfully completed

Certificate course in Instrumental Analysis

Head
Department of Chemistry

MDohmukh

CFEI - Chairman

DATE:12/02/2020



## SONOPANT DANDEKAR SHIKSHAN MANDALI'S Sonopant Dandekar Arts, V.S. Apte Commerce & M.H. Mehta Science College, Palghar



This is to certify that

Ms. TARE RUTUJA BHUPESH

had successfully completed

Certificate course in Instrumental Analysis

CFEI - Chairman

Head Department of Chemistry

DATE:12/02/2020

## SONOPANT DANDEKAR SHIKSHAN MANDALI'S Sonopant Dandekar Arts, V.S. Apte Commerce & M.H. Mehta Science College, Palghar



This is to certify that

Mr. Janwadkar Hardik Suhas

had successfully completed

Certificate course in Instrumental Analysis

Head Department of Chemistry CFEI - Chairman

DATE: 12/02/2020