



**GOVERNMENT OF WEST BENGAL**  
**Office of the Principal, Jhargram Raj College**  
 JHARGRAM:: 721507

**Tender Notice**

No. 493/NIT/2026-27

Date: 11.09.2026

Sealed Tenders are invited from reputed and bonafide enlisted suppliers/dealers/agencies/companies for supply of the items as noted below to the Jhargram Raj College, Jhargram.

**'A' (Computers, electronic goods and accessories)**

1. Desktop Computers (HP, Ci5 6gen/ 1TB/4GB DDR 4/Optical Drive/Win10 Pro/Monitor (19"), Mouse, Keyboard, 3yrs onsite)
2. Laptop (DELL, Ci5-8250U Processor (6MB Cache, up to 3.4 GHz)/ 8GB/1TB/2GB Graphics/Win 10 Home/15.6")
3. External Hard Disk (1TB, Seagate)
4. External Hard Disk (2TB, Seagate)
5. UPS 600VA (APC)
6. LASER Printer(a. HP P1108 Mono LaserJet, b. HP M1005 132A Mono Print/Scan/Copy)
7. LASER Colour Printer (Canon/HP)
8. Scanner (Canon/HP)
9. Hand Scanner
10. LASER Printer cum Scanner(Canon/HP)
11. Cartridge (HP laser Jet P 1108, 88A, 12A (Canon MF 4820 D)
12. Copier (Canon)
13. LCD Projector with Screen (1000 Lumens)
14. LED Projector (Epson/Sony/BENQ)
15. Projector Stand
16. Projector Screen
17. Inverter (Microtech/Luminous)
18. Refrigerator (Whirlpool 320 Litt.)- Double Door/Single Door
19. Air cooler (Voltas/Blue Star/Samsung)
20. Water Purifier (Kent/2Ton)
21. Air Conditioner (Voltas 185 EYS 1.5 ton/2 ton, 5 Star/Samsung- Copper)
22. Vacuum Cleaner (KENT/Others)
23. Aqua Guard (Eureka Forbes, RO+UV+MTDS)
24. Exide Battery (50AH, 100AH, 150AH)
25. Smart Board (Infrared sensor technology 4 point touch, Interactive whiteboard, standard communication distance 1.5m, support 10-15m. Power consumption <100mA, Support Screen record. Supported Window 8,10.
26. Pen Drive (32 GB, HP)
27. Pen Drive (16 GB, HP)
28. Digital Calculator (Casio, FX-9860GII)
29. Digital Calculator (Casio, DJ-120D+Deskstop Calculator)
30. Pedestal Fan (Havells)
31. High-Capacity Extension Board
32. Digital Voice Reorder with built in USB
33. Compact Portable sound system with cordless mouth piece
34. Toner for photocopier: NPG 51, NPG 28, NPG 59 (Canon)
35. Colour Cartridge: SPS 130A/CF350A/CF351A/CF352A/CF353A.
36. Zebtronics Bluetooth Party Speaker with microphone and 70W RMS. AUX, USB, SD Card compatible with rechargeable battery for 4-6 hrs. backup.
37. Inkjet all-in-one printer (Canon Pixma MG2570S or equivalent)

  
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'B' (Software)

1. Operating Systems: Windows 10
2. Antivirus (Quickheal total security, multi users (10)/above
3. KOHA Integrated Library Mangement Software (ILMS)

'C' (Instruments)

1. He-Ne LASER (2W & 5W)
2. Optical Honey comb table top (Holmarc make model TT 180-150)
3. Vibration isolation for optical table (Holmarc AVI204S)
4. Optical Mounts (Holmarc make: a. Posts P23, P40, P50, P75 b. Post Holder a. PH 30, PH 50, PH 75, PH 100, Ph 150; c. Post base PB 6525, PB 7525; d. Right angle post clam RAC-12, )
5. Kinematic mirror mounts (Holmarc BM-CS-25)
6. Translation stage (Holmarc BM-CS-25)
7. Optical components (Plano convex lens of dia 1 inch, Metal mirror of dia 1 inch, dielectric mirror of dia 1 inch, Plate beam splitter, Beam samplers All optics for He Ne wavelength)
8. Photo detector (Photodiode based, for He-Ne Laser)
9. Digital Oscilloscope (Tektronics)
10. Set-up for determination of conductivity of Copper by Angstrom method.
11. Set-up for Millikan's oil drop method
12. Set-up for determination of absorption line of iodine
13. Set-up for studying Zeeman effect by external magnetic field
14. Set-up for electron spin resonance (ESR)
15. Ballistic galvanometer (Oxford/ Inco make)
16. Dead-beat galvanometer (Oxford/ Inco make)
17. Platinum resistance thermometer (Inco make)
18. Spectrometer (Vernier Constant 20") (Inco/Devco make)
19. Hot plate heating mantle
20. Set-up for measuring AC dielectric constant with frequency
21. Set-up for measuring complex dielectric constant and plasma frequency of metal usin surface plasmon resonance.
22. Set-up for Hall coefficient measurement of semiconductor
23. Set-up for analysing elliptically polarized light by Babinet's compensator
24. Set-up for determination of wavelength and velocity of ultrasonic wave in liquid by diffraction
25. Autoclave (SS)
26. Hemocytometer
27. Spinwin micro centrifuge
28. Pipetman Micropipettes
29. UV Transilluminator
30. Vertical Gel Electrophoresis Unit with powerpack
31. Horizontal Gel Electrophoresis unit
32. Heathrow vortexer
33. Ultra freezer (-30C)
34. Balance Electrical Digital (Winser, 1mg-200mg)
35. Air Oven (Hot) (18x18x24 SS Digital)
36. Electrical Water Bath (6 hole)
37. Micro-pipette (Tarson, 1ml & 10 ml)
38. Polarimeter
39. UV-spectrophotometer (Eylla, Japan)
40. Electrode (Silver, Systronics)
41. Electrode (Platinum, Systronics)
42. Electrode (Glass, Systronics)
43. Electrode (Calomel, Systronics)
44. PH meter (Systronics)
45. Conductometer (Systronics)
46. Potentiometer (Systronics)
47. Magnetic stirrer (Remi 2MLH)

  
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48. Magnetic Bar
49. Oil bath set-up
50. Water Container (Carboy-10Lit.)
51. Steel Distillation Set (EI, 4 litres/hour capacity)
52. Thermostatic Water bath (6 holes)
53. Iron Removal Plant
54. Educational Globe (8inch, Mathematics)
55. Hand Grip Dynamometer
56. Leg and Back Dynamometer
57. Weighing Machine
58. Height Scale (Stadiometer)
59. Skinfold Caliper
60. Victory Stand
61. Solar Panel
62. Incubator shaker(for bacteriology)
63. Glass washer.

#### 'D' (Networking)

1. Supply and installation of Networking for computers in college premises:

- Cat 6 Cable
- Fibre Optic Cable
- LIU
- Patch Panel
- Switch
- IO Box and module
- Patch Cord
- Network Rack etc.

#### 'E' (Furniture)

1. Computer Table
2. Small Writing Table (Supreme/Others)
3. Revolving Chair
4. Wooden Chair
5. Plastic Chair (Supreme)
6. Metal Chair with cushion
7. Steel Almirah (Godrej)
8. Steel Almirah with Glass Door Storwell(Godrej)
9. Locker Cabinet with 12 lockers
10. Steel Locker Cabinet
11. File Cabinet
12. Key Cabinet
13. Glass Front Wooden Notice Board (4'x3')
14. Wooden cabinets with glass front
15. Green Glass Board
16. White Board (7'x4')
17. Granite Table Top
18. Wooden Cupboard
19. Wall Clock (Ajanta)
20. 10 mm Glass top for Table (12'x8')
21. Black Granite Top on the Wooden Working Desk (10.5'x5')
22. Black Granite Top on the Wooden Working Desk (12'x5')
23. Black Granite Top on the Wooden Working Desk (16'x3.5')
24. Black Granite Top on the Wooden Working Desk (22'x3')
25. Black Granite Top on the Wooden Working Desk (6'x2')
26. Black Granite Top on the Wooden Working Desk (24'x5')
27. Black Granite Top on the Wooden Working Desk (18.5'x2.5')
28. Black Granite Top on the Wooden Working Desk (17.5'x4')

**Principal**  
**Jhargram Raj Collene**

29. Black Granite Top on the Wooden Working Desk (10'x2.5')
30. Black Granite Top on the Wooden Working Desk (22'x2.5')
31. Black Granite Top on the Wooden Working Desk (10'x2.5')
32. Wooden Notice Board with Glass Cover
33. Display Board (Name)
34. Iron Flag Pole Stand
35. Garden Umbrella
36. Khokho post
37. Gymnastic Mattress

**'F' (College Beautification, Innovation and Best Practices)**

1. Medicinal Gardening
2. Landscape Gardening
3. Arboretum
4. Tree Census
5. Vermi composting Unit
6. Net House/Green House
7. Fencing and Lawn
8. Signage and Tagging
9. Jungle Cleaning (3 Hostels and College Campus)
10. Extension Activities, Field Projects, Flex, Banners, Transport etc.

**'G' (Others)**

1. Table Cover
2. Curtain
3. Door Mat
4. Volleyball
5. Football
6. Badminton Racket
7. Badminton Shuttle Cork

**"H" Repairing & Maintenance items**

| Sl.No | Name of the Articles           | Items                                                                                  |
|-------|--------------------------------|----------------------------------------------------------------------------------------|
| 01.   | <b>Gymnasium related items</b> | 1. Resistance Bicycle -03                                                              |
|       |                                | 2. Treadmill-03                                                                        |
|       |                                | 3. Stepper-02                                                                          |
|       |                                | 4. Vibrator-01                                                                         |
|       |                                | 5. Electronic Massage Chair-03                                                         |
|       |                                | 6. Souna bath chamber-01                                                               |
| 02.   | <b>Others repairing items</b>  | 1. Repairing of Inverter & Battery                                                     |
|       |                                | 2. Repairing of Colour Printer, Photocopier machine                                    |
|       |                                | 3. Repairing of Computer & its peripherals items                                       |
|       |                                | 4. Repairing of steel/Wooden Almirah & Lock/ Chair & Table                             |
|       |                                | 5. Repairing of Aquaguard, Microscope, refrigerator/LCD projector/Air Purifying System |
|       |                                | 6. Repairing of Desktop/ Laptop related items.                                         |
|       |                                | 7. Repairing of CCTV                                                                   |
|       |                                | 8. Repairing of GAS pipeline (03hostels & Chemistry Lab. ,JRC)                         |
|       |                                | 9. Repairing of fire extinguisher                                                      |
|       |                                | 10. Repairing of Sanitary Napkin Vending Machine                                       |
|       |                                | 11. Oil free Vacuum pump                                                               |
|       |                                | 12. Fume Hood                                                                          |



'I' (Office Stationeries, equipments, printing articles)List of Stationery Articles

| SL.NO. | Name of Articles             | Brand                                       |
|--------|------------------------------|---------------------------------------------|
| 1      | Alpin                        | King                                        |
| 2      | Cover file                   | Amb.Clastic/Blackbardmetro/BlackbardClastic |
| 3      | Document file                | Keya 20L/40L                                |
| 4      | White Board                  |                                             |
| 5      | Binder Clip                  | 1" /2"                                      |
| 6      | Fevistic                     | 15gm./8gm.                                  |
| 7      | Pen Drive                    | 8GB,16GB,32GB, Trasand/HP                   |
| 8      | Toilet Brush(Nylon)          |                                             |
| 9      | Plastic Waste Paper Basket   | Plastic                                     |
| 10     | Cloth Duster                 | Ordinary/Best Quality                       |
| 11     | Chalk(White)                 | Kores(144 Stick)                            |
| 12     | Chalk (Colour)               | Kores(50Stick)                              |
| 13     | Cup Plate                    | Laopala/bone chaina                         |
| 14     | Cello Tape                   |                                             |
| 15     | Water Glass                  | Year/Best                                   |
| 16     | Favicol Tube                 | Favicol                                     |
| 17     | Table Cloth                  | Good Quality/Velvet/Medium Quality          |
| 18     | Door Screen                  | Good Quality/Medium Quality                 |
| 19     | Stock Register               | Bharat St.                                  |
| 20     | Foron                        | Best                                        |
| 21     | Gum, 700ml.                  | Camel                                       |
| 22     | Gems Clips[Poly/Steel]       | Dayal                                       |
| 23     | Ordinary Lock                | 7 L Hidco                                   |
| 24     | Navtal Lock                  | Godrej 5,6,7,8,12 lever                     |
| 25     | Bleaching Powder             | Device                                      |
| 26     | Both Side Dot Pen            | Link-Woody/Prince                           |
| 27     | Paper Weight                 | Glass                                       |
| 28     | F.S.Paper White              | Super Fine, Omex/Ujjal Dear                 |
| 29     | F.S. Paper Rule              | Super Fine, Omex/Ujjal Dear                 |
| 30     | Pen Stand                    | Morrision                                   |
| 31     | Bond Register                | Best Quality/Ordinary                       |
| 32     | Bond Register                | Best Quality/Ordinary                       |
| 33     | Bond Register                | Best Quality/Ordinary                       |
| 34     | Bond Register                | Best Quality/Ordinary                       |
| 35     | Bond Register                | Best Quality/Ordinary                       |
| 36     | Bond Register                | Best Quality/Ordinary                       |
| 37     | Rubber Band                  | Best Quality/Ordinary                       |
| 38     | Sutli                        | Best Quality/Ordinary                       |
| 39     | Vim Powder                   | Vim                                         |
| 40     | Candle                       |                                             |
| 41     | Xerox Paper                  | Modi A4 Spetrum/JK                          |
| 42     | Xerox Paper                  | Modi/JK-FS/A3                               |
| 43     | Computer Paper               | Bilt Copy PowerA4                           |
| 44     | Sealing Wax                  | 8 Stick                                     |
| 45     | Thread Cotton                | No.595                                      |
| 46     | Tag-9''                      | Best Quality                                |
| 47     | Plastic Mug                  |                                             |
| 48     | Plastic Jug                  |                                             |
| 49     | Life Buoy Soap               | Life Buoy- Big                              |
| 50     | Seat Cushion                 |                                             |
| 51     | Dettol                       | 100ml                                       |
| 52     | Needle                       |                                             |
| 53     | Naptholin Ball               | Bengal Chemical                             |
| 54     | Muratic Acid                 |                                             |
| 55     | Finger Grip                  |                                             |
| 56     | Re-writable Blank CD         | Moser Bear                                  |
| 57     | Battery (Pencil/Laser torch) | Eveready                                    |
| 58     | Knife                        | Steel Plain                                 |

|     |                                  |                                   |
|-----|----------------------------------|-----------------------------------|
| 69  | Marker Pen                       | Art Line-500/camlin               |
| 60  | Wooden Pencil                    | Nataraj                           |
| 61  | Computer Cartridge               | HP                                |
| 62  | Gel Pen                          | Renolds- Racer Renolds-Trimax     |
| 63  | OHP Marker Pen                   | Camlin                            |
| 64  | Flower Vase                      | Good Quality Brass Ordinary       |
| 65  | Plastic Scale                    | Camel                             |
| 66  | Door Coir Mattress               | Coconut Rope, Nylon               |
| 67  | Candle Large                     | Thik with Stand                   |
| 68  | Key Bag                          | Leather- Big , Small              |
| 69  | Duster                           | Nylon                             |
| 70  | Stapler                          | Kangaroo                          |
| 71  | Hand Towel                       | Bombay Dying Tulip                |
| 72  | Correction Pen                   | Flair                             |
| 73  | Calculator                       | Orpat                             |
| 74  | Eraser                           | Non-dust                          |
| 7   | Flower Broom                     | Best                              |
| 77  | Glass for Table                  | Modi                              |
| 78  | Towel                            | Sky/VIP Master/one colour(72x36") |
| 79  | Teaspoon/Dinner Spoon            | Stainless Steel                   |
| 80  | Scissors                         | Dayal 16cm/22mm/32mm              |
| 81  | Dinner Plate                     | Laopola                           |
| 82  | Flask                            | Eagle 2.2 L/ 1 L.                 |
| 83  | Plastic Bucket                   | 10 L/20 L.                        |
| 84  | Board Duster                     | Dayal                             |
| 85  | Peon Book                        | Bharat St.- 50 Pages              |
| 86  | Board Pin                        | Plastic                           |
| 87  | Big Stapler                      | Kangaroo HP-10/HP45               |
| 88  | Channel File                     | Best A-4/FC                       |
| 89  | Dot Pen                          | Linc siren Neo Brain AD           |
| 90  | Harpic                           | Harpic                            |
| 91  | Laser Jet 12 A                   | HP- Black (Original)              |
| 92  | Laser Jet 1600                   | HP Black, HP Colour               |
| 93  | Laser Jet 88A/80A                | HP                                |
| 94  | Laser Jet MAP136A                | HP 110A                           |
| 95  | Table Tray with Clip             | Plastic                           |
| 96  | Liquid Soap                      | Dettol/Lifeboy                    |
| 97  | Complete Dinner set              | Laopola 35 Pc                     |
| 98  | CD Keeping Box                   | 80 CD Capacitor                   |
| 99  | Match                            |                                   |
| 100 | Broom                            | Best Quality                      |
| 101 | Envelope Brown                   | 11"x9"/ 6"x12"                    |
| 102 | Stapler Pin                      | Kangaroo No.-10/ No-24/6          |
| 103 | Phenyl Black/ Scented            | Harmer                            |
| 104 | DFC Paper                        | 8.6 Kg/ 8 Kg                      |
| 105 | Stamp Pad Ink                    | Camlin                            |
| 106 | Pen Ink                          | Camel                             |
| 107 | Writable DVD                     | Moser Baer                        |
| 108 | Rewritable DVD                   | Moser Baer                        |
| 109 | Photographic Paper               | Desmatt 270GSM/185 GSM            |
| 110 | Catalogue Card                   |                                   |
| 111 | Spine Level                      |                                   |
| 112 | Dot Matrix Paper                 | Silverton                         |
| 113 | Dot Matrix Paper                 | Silverton                         |
| 114 | Stamp Pad                        | Faber-Castell                     |
| 115 | Type Carbons                     | Kores                             |
| 116 | Pencil Carbons                   | Kores                             |
| 117 | Digital Clock                    | Ajanta 105                        |
| 118 | Globe 12"                        | Academi                           |
| 119 | Electric Kettle                  | Orpat 1/ 1.2 Lit.                 |
| 120 | Laser Jet 328                    | Canon (Original)                  |
| 121 | Student Attn.Reg. 6 Part/8 Part. | Bharat Stn.                       |
| 122 | Different size of Rubber Stamp   |                                   |



|     |                                              |              |
|-----|----------------------------------------------|--------------|
| 123 | Mirror                                       |              |
| 124 | Toilet Hanger                                |              |
| 125 | Plastic rack with mirror for toilet          |              |
| 126 | Umbrella for Security Guard                  | K.C.Pal      |
| 127 | LED Charger Torch light/Emergency Table lamp |              |
| 128 | Aluminium Roll-up Standee (3' /6')           | Best Quality |
| 129 | Room Freshner                                |              |
| 130 | Green Board (6'/4')                          | Best Quality |
| 131 | Black Board (6'/4')                          | Best Quality |
| 133 | White Board (6'/4')                          | Best Quality |

**"J"List of Printing Articles**

| SL NO. | ITEMS OF PRINTING ARTICLES                                        |
|--------|-------------------------------------------------------------------|
| 1      | Cash Book (Lather Binding 500 Pages Book) each book .             |
| 2      | Demand Register (500 Pages) each Book .                           |
| 3      | Staff Attendance Register ( 50) Pages each Book .                 |
| 4      | Students Attendance Register- 6 fold .                            |
| 5      | Students Attendance Register- 8 fold .                            |
| 6      | Admission Register 300 Pages Book .                               |
| 7      | Hostel Chart Pad 100 Pages Book .                                 |
| 8      | Library Day Issue Card 100 Pages Book.                            |
| 9      | Pay-in-slip (10 Pages Book) White -Per Book .                     |
| 10     | Pay-in-slip (10 Pages Book) . Colour.                             |
| 11     | Character Certificate- 100 Pages Book.                            |
| 12     | Identity Card U.G. & P.G Department                               |
| 13     | Identity Card- of Office staff                                    |
| 14     | Clearance Certificate for Teacher-100 Pages Book .                |
| 15     | Requisition Slip for Library-100 Pages Book .                     |
| 16     | Library Card Per-1000 .                                           |
| 17     | Document of Admission Register & Result Register 200 Pages Book . |
| 18     | Library Card Issue Register-100 Pages Book .                      |
| 19     | Library Address Register for Students-100 Pages Book .            |
| 20     | Library Book Binding ( Board with Raxin) Each Book .              |
| 21     | Contingent Register- 300 Pages Book .                             |
| 22     | Girls Hostel Leaving Certificate- 100 Pages Books .               |
| 23     | Girls Hostel Certificate-50 Pages Book .                          |
| 24     | Demand Register-300 Pages Book .                                  |
| 25     | Anti- Ragging Form( 5 Pages Per Set) .                            |
| 26     | Accession Register (Library) 500 Pages Book .                     |
| 27     | Catalogue Register (Library) 300 Pages Book .                     |
| 28     | Daily Collection Register (Lather Binding) 500 Pages Book .       |
| 29     | Bill Register 200 Pages Book .                                    |
| 30     | Department Book Register (Library) 500 Pages Book.                |
| 31     | Envelope With Print Per 1000 Pcs Medium .                         |
| 32     | Envelope With Print Per100 A4 Size .                              |
| 33     | Window Envelope With Print Per 1000Pcs .                          |
| 34     | A4 Computer Paper Per Rim 500 Pages .                             |
| 35     | Xerox Paper Per Rim .                                             |
| 36     | Four Fold Cover file With Print Good Quality.                     |
| 37     | Two Fold Cover file with Print Good Quality.                      |

'K' (Glass and Chemicals)

1. Bio-chemicals for CBCS and NEP Honours course
2. Plasticware & storage boxes for ultra freezer
3. Other glasses and chemicals items, Biological specimen (please contact with HOD of the Dept. of Physics, Chemistry, Botany, Zoology, Physiology)

: Physics Department, Jhargram Raj College:

| Sl. No. | Name                                                                                                               | Quantity |
|---------|--------------------------------------------------------------------------------------------------------------------|----------|
| 1       | IC 741                                                                                                             | 20       |
| 2       | IC7404                                                                                                             | 20       |
| 3       | IC7400                                                                                                             | 30       |
| 4       | IC7410                                                                                                             | 25       |
| 5       | IC7408                                                                                                             | 10       |
| 6       | IC7411                                                                                                             | 25       |
| 7       | IC7432                                                                                                             | 20       |
| 8       | IC7476                                                                                                             | 10       |
| 9       | IC555                                                                                                              | 15       |
| 10      | IC7490                                                                                                             | 10       |
| 11      | Zener diode(5.6V, 1W, 6.7V 1W)                                                                                     | 25       |
| 12      | Junction diode BY127, 1N4007                                                                                       | 25 EACH  |
| 13      | Tunnel diode(1N3717)V <sub>v</sub> =500 mV, V <sub>p</sub> =60mV                                                   | 5 pc     |
| 14      | Ceramic Capacitor (0.1, 0.01, 0.001 $\mu$ F)                                                                       | 25 EACH  |
| 15      | Resistance ( $68\Omega$ , $100\Omega$ , $680\Omega$ , $570\Omega$ 1K, 2.2K, 3.3K, 10K, 47K, 22K, 68K, 100K), 1/4 W | 100 EACH |
| 16      | Resistor( $22\Omega$ , $47\Omega$ , $56\Omega$ , $33\Omega$ ) 1/2 W                                                | 100 EACH |
| 17      | Transistor (SL 100/ CK100)                                                                                         | 25 EACH  |
| 18      | soldering iron                                                                                                     |          |
| 19      | Carbon Pot (0-10K $\Omega$ , 0-1M $\Omega$ , 0-10M $\Omega$ ) 0-1k/<br>multiturn(470K $\Omega$ )                   | 10 EACH  |
| 20      | Bread board wire (3 different colour)                                                                              | 5 pc     |
| 21      | Bread board (Wiss)                                                                                                 | 10pc     |
| 22      | Copper wire with cotton wrapping (0.6/0.8mm dia)                                                                   |          |
| 23      | Tapping key                                                                                                        |          |
| 24      | Plug key (i) one way (ii) two way                                                                                  |          |
| 25      | constantan wire                                                                                                    |          |
| 26      | Wire for electric Heater                                                                                           |          |
| 27      | LED lamp (5W/9W)                                                                                                   |          |
| 28      | LED (Red, green, blue, white, yellow)                                                                              |          |
| 29      | Table lamp                                                                                                         |          |
| 30      | Filament bulb                                                                                                      |          |
| 31      | Scooter bulb                                                                                                       |          |
| 32      | Two/Three pin plug                                                                                                 |          |
| 33      | Spirit level                                                                                                       |          |
| 34      | Spherometer                                                                                                        |          |
| 35      | Slide Calliper                                                                                                     |          |
| 36      | Thermister                                                                                                         |          |

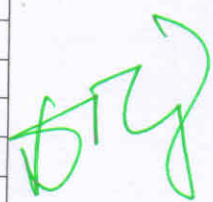


|    |                                                                                                           |             |
|----|-----------------------------------------------------------------------------------------------------------|-------------|
| 37 | Battery for multimeter                                                                                    |             |
| 38 | Glass prism ( $60^\circ$ )                                                                                |             |
| 39 | Grating (10000, 15000 lines/inch) Hilger                                                                  |             |
| 40 | Convex lens ( $f=10,15\text{cm}$ ) b) Concave lens ( $f=15,20\text{cm}$ )                                 |             |
| 41 | Magnifying glass                                                                                          |             |
| 42 | a) Planoconvex lens b) plane glass plate                                                                  |             |
| 43 | Polarimeter tube (20 cm)                                                                                  |             |
| 44 | Beaker (1L,500ml)                                                                                         |             |
| 45 | Measuring cylinder (10ml,25ml,50ml)                                                                       | 5 each      |
| 46 | Glass funnel ( 15 cm diameter)                                                                            |             |
| 47 | Round bottom flask with side arm (1L)                                                                     |             |
| 48 | Graph paper (mm)                                                                                          |             |
| 49 | Thermometer ( $-10^\circ$ - $110^\circ$ ) with $0.1^\circ/0.5^\circ$ calibration                          | 10pc        |
| 50 | cotton                                                                                                    |             |
| 51 | Thistle funnel (length 30cm)                                                                              |             |
| 52 | Sand Paper                                                                                                |             |
| 53 | Regulated Power supply ( 0-10 V) variable type with/without volt meter                                    |             |
| 54 | Regulated Power supply ( 0-5 V) variable type                                                             |             |
| 55 | Regulated Power supply ( +12 to -12V) for OPAMP                                                           |             |
| 56 | Regulated Power supply 2 volt constant type                                                               |             |
| 57 | Resistance box( $1-10000\Omega$ , $1-5000\Omega$ , $0.1-100\Omega$ , $0.1-10\Omega$ ) Manganin/Constantan |             |
| 58 | Electric Heater                                                                                           |             |
| 59 | Rubber Pipe (0.6mm, 0.8 mm , 1 mm, 1.2 mm dia)                                                            |             |
| 60 | Heating Mental (1L/2L) with regulator                                                                     |             |
| 61 | Boiler (Copper) (i) with side arm for steam exit (2L/1L) (ii) for Pt resistance thermometer               |             |
| 62 | Digital voltmeter (0-20/0-200V)                                                                           |             |
| 63 | Digital milliammeter (0-200mA)                                                                            |             |
| 64 | Digital microammeter (0-200 $\mu\text{A}$ )                                                               |             |
| 65 | Digital multimeter                                                                                        |             |
| 66 | Fuse ( 0.5 amp/1.0 amp)                                                                                   | 10 pcs each |
|    | Repairing                                                                                                 |             |
| 67 | Regulated Power supply ( 0-10 V) variable type with/without volt meter                                    |             |
| 68 | Regulated Power supply ( 0-5 V) variable type                                                             |             |
| 69 | Regulated Power supply ( +12 to -12V)                                                                     |             |
| 70 | Servicing/repairing of Printer                                                                            |             |
| 71 | Misc. equipment repairing                                                                                 |             |

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Department of Zoology  
Jhargram Raj College, Jhargram  
List of Chemicals to be purchased

| Sl.No | Name of the items              | Packaging/ Capacity | Quantity |
|-------|--------------------------------|---------------------|----------|
| 1.    | Acetic acid (glacial ) LR      | 500ml               | 1        |
| 2.    | Agar Powder LR                 | 500g                | 2        |
| 3.    | Ammonium acetate HPLC          | 500g                | 1        |
| 4.    | ABO blood group testing kit    | 1                   | 5        |
| 5.    | Aceto orcein powder            | 500g                | 1        |
| 6.    | Alumiinium Foil                | 1                   | 4        |
| 7.    | Amylase                        | 500g                | 1        |
| 8.    | Agarose                        | 500g                | 1        |
| 9.    | Alcohol Absolute               | 500g                | 10       |
| 10.   | Acetic acid (glacial )         | 500g                | 2        |
| 11.   | Ammonium hydroxide             | 500g                | 2        |
| 12.   | Ammonium acetate               | 500g                | 2        |
| 13.   | Ammonium acetate               | 500g                | 2        |
| 14.   | Borax AR                       | 500g                | 1        |
| 15.   | BSA                            | 100 mg              | 2        |
| 16.   | Barfoed's reagent              | 250ml               | 2        |
| 17.   | Benedict's qualitative reagent | 500ml               | 2        |
| 18.   | Bradford                       | 500ml               | 1        |
| 19.   | Chloroform AR                  | 500ml               | 2        |
| 20.   | Carboxy methyl cellulose       | 250g                | 1        |
| 21.   | EDTA LR                        | 500g                | 1        |
| 22.   | Folin                          | 500ml               | 2        |
| 23.   | Formalin                       | 5lt                 | 1        |
| 24.   | Formaldehyde                   | 2.5lt               | 1        |
| 25.   | Glucose (Dextrose)             | 500g                | 2        |
| 26.   | Globulin                       | 500gm               | 1        |
| 27.   | Gelatin                        | 500gm               | 1        |
| 28.   | Glycerol                       | 500ml               | 1        |
| 29.   | Haematoxylin powder            | 5g                  | 2        |
| 30.   | Haematoxylin liquid            | 125ml               | 1        |
| 31.   | Hydrochloric acid AR           | 2.5L                | 1        |
| 32.   | Manganous sulphate AR          | 500g                | 1        |
| 33.   | MALTOSE mono LR                | 250g                | 3        |
| 34.   | Millon's reagent               | 500 ml              | 1        |
| 35.   | Molisch's reagent              | 500 ml              | 1        |
| 36.   | Nitric Acid AR                 | 2.5L                | 1        |
| 37.   | Ninhydrin                      | 500ml               | 1        |
| 38.   | Perchloric acid                | 500ml               | 1        |
| 39.   | pH buffer capsule 4            | 20Capsules          | 3        |
| 40.   | pH buffer capsule 7            | 20Capsules          | 1        |
| 41.   | pH buffer capsule 9            | 20Capsules          | 1        |
| 42.   | Propionic acid LR              | 500ml               | 2        |
| 43.   | Phenol AR                      | 500ml               | 1        |
| 44.   | Potassium chromate AR          | 500g                | 1        |
| 45.   | Potassium dichromate AR        | 500g                | 1        |





|     |                                    |        |   |
|-----|------------------------------------|--------|---|
| 46. | Potassium Hydroxide AR             | 500g   | 1 |
| 47. | Potassium Iodide AR                | 500g   | 4 |
| 48. | Phenolphthalein indicator solution | 125ml  | 2 |
| 49. | Silver Nitrate LR                  | 25g    | 1 |
| 50. | Sodium Chloride                    | 500g   | 1 |
| 51. | Sodium Thiosulphate AR             | 500g   | 1 |
| 52. | Sulphuric acid AR                  | 2.5L   | 1 |
| 53. | Sodium Hydroxide Pellete AR        | 500g   | 1 |
| 54. | Sodium Iodide AR                   | 250g   | 2 |
| 55. | Sodium Sulphide LR                 | 500g   | 1 |
| 56. | Starch AR                          | 500g   | 2 |
| 57. | Sucrose AR                         | 500g   | 2 |
| 58. | Double distilled water HPLC        | 1L     | 1 |
| 59. | Methylene Blue                     | 125ml  | 2 |
| 60. | WBC diluting fluid                 | 500ml  | 2 |
| 61. | Xylene AR                          | 500 ml | 2 |

Department of Zoology (UG & PG)  
Jhargram Raj College, Jhargram

List of Glassgoods to be purchased

| Sl.No | Name of the items       | Packaging/ Capacity | Quantity |
|-------|-------------------------|---------------------|----------|
| 1     | Burette                 | 25 ml               | 16       |
| 2     | BOD Bottle              | 300 ml              | 24       |
| 3     | BeakerGlass             | 100 ml              | 20       |
| 4     | BeakerGlass             | 500 ml              | 12       |
| 5     | Beaker Glass            | 100 ml              | 10       |
| 6     | Beaker Glass            | 250 ml              | 10       |
| 7     | Beaker Glass            | 500 ml              | 10       |
| 8     | Beaker Glass            | 1 Litre             | 10       |
| 9     | Conical flask           | 100 ml              | 10       |
| 10    | Conical flask           | 250 ml              | 10       |
| 11    | Conical flask           | 500 ml              | 10       |
| 12    | Conical flask           | 1000 ml             | 10       |
| 13    | Coupling jar            |                     | 20       |
| 14    | Centrifuge tube 15 ml   |                     | 1 pack   |
| 15    | Centrifuge tube box     |                     | 1 pack   |
| 16    | Clamp for burette stand |                     | 15       |
| 17    | Cover Slip              |                     | 2        |
| 18    | Cover Slip              |                     | 2        |
| 19    | Chloroform              | 500ml               | 2        |

  
Principal  
Jhargram Raj College

|    |                           |         |     |
|----|---------------------------|---------|-----|
| 20 | Cotton Absorbant          |         | 2   |
| 21 | Cotton Non Absorbant      |         | 2   |
| 22 | Dropping bottle           |         | 15  |
| 23 | Glass vial with cork      |         | 100 |
| 24 | Glass Jars                | 1500 ml | 2   |
| 25 | Glass Jars                | 1000 ml | 8   |
| 26 | Glass Jars                | 500 ml  | 5   |
| 27 | Reagent Bottle Amber      | 250 ml  | 12  |
| 28 | Reagent Bottle PLAIN      | 250 ml  | 12  |
| 29 | Wide mouth Reagent Bottle | 100 ml  | 20  |
| 30 | Wide mouth Reagent Bottle | 250 ml  | 40  |
| 31 | Wide mouth Reagent Bottle | 500 ml  | 40  |
| 32 | Wide mouth Reagent Bottle | 1000 ml | 20  |
| 33 | Measuring cylinder        | 1000ml  | 4   |
| 34 | Measuring cylinder        | 500ml   | 4   |
| 35 | Measuring cylinder        | 100ml   | 4   |
| 36 | Measuring cylinder        | 50ml    | 4   |
| 37 | Funnel                    | 50mm    | 12  |
| 38 | Funnel                    | 75mm    | 12  |
| 39 | Funnel                    | 12mm    | 4   |
| 40 | Pipette                   | 1ml     | 10  |
| 41 | Pipette                   | 2ml     | 10  |
| 42 | Pipette                   | 5ml     | 10  |
| 43 | Pipette                   | 10ml    | 10  |
| 44 | Test tube                 | 25ml    | 100 |



List of Specimens to be purchased

| Sl.No | Name of the items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quantity     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1     | <b>Specimen:</b> <i>Amoeba</i> , <i>Euglena</i> , <i>Paramecium</i> , <i>Plasmodium vivax</i> , <i>Sycon</i> , Neptune's cup, <i>Obelia</i> , <i>Hydra</i> , <i>Aurelia</i> , Coral, Sea anemone, Sea pen, <i>Beroe</i> , <i>Fasciola</i> , <i>Teania</i> , <i>Ascaris</i> , <i>Nereis</i> , <i>Aphrodite</i> , Leech, <i>Tubifex</i> , <i>Carcinoscorpius</i> , Scorpion, <i>Balanus</i> , Crab, <i>Macrobrachium</i> , <i>Penaeus</i> , <i>Squilla</i> , <i>Eupagurus</i> , <i>Scolopendra</i> , <i>Julus</i> , Termite queen, Silkworm, Honey bee (three casts), Locust, Grasshopper, Stick insect, <i>Lepisma</i> , <i>Daphnia</i> , <i>Cyclops</i> , <i>Peripatus</i> , <i>Chiton</i> , <i>Achatina</i> , <i>Aplysia</i> , Oyster, Mussel, <i>Sepia</i> , <i>Loligo</i> , <i>Octopus</i> , Sea star, Brittle star, <i>Antedon</i> , Sea cucumber, <i>Echinus</i> , <i>Balanoglossus</i> , <i>Ascidia</i> , <i>Branchiostoma</i> , <i>Myxine</i> , <i>Petromyzon</i> , <i>Scoliodon</i> , <i>Sphyrna</i> , <i>Trigon</i> , <i>Torpedo</i> , <i>Labeorohita</i> , <i>Catlacatla</i> , <i>Heteropneustes</i> , <i>Clarias</i> , <i>Tenuulosa</i> , <i>Exocoetus</i> , <i>Anabas</i> , Sucker fish, Flat fish, <i>Hippocampus</i> , <i>Uraeotyphlus</i> , <i>Ichthyophis</i> , <i>Tylototriton</i> , <i>Hyla</i> , <i>Rhachophorus</i> , <i>Chelone</i> , <i>Trionyx</i> , <i>Hemidactylus</i> , <i>Varanus</i> , <i>Calotes</i> , <i>Gekko</i> , <i>Chameleo</i> , <i>Draco</i> , <i>Bungurus</i> , <i>Naja</i> , <i>Daboia</i> , <i>Ahatulla</i> , <i>Chrysopelea</i> , <i>Hydrophis</i> , <i>Crocodylus</i> , <i>Gavialis</i> , <i>Pistaculla</i> , <i>Spilopelia</i> (spotted dove), <i>Milvus</i> (kite), <i>Bandicota</i> , <i>Pteropus</i> , <i>Cavia</i> | 1 each       |
| 2     | <b>Permanent slides of-</b> <i>Aedes</i> , <i>Culex</i> , <i>Anopheles</i> , <i>Pediculus humanus capitis</i> , <i>Phthirus pubis</i> , <i>Xenopsyllacheopsis</i> , <i>Cimex lectularius</i> , <i>Phlebotomus argentipes</i> , <i>Musca domestica</i> through                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 each       |
| 3     | <b>Permanent slides of-</b> Mitosis & Meiosis cell division stages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | One Full set |
| 4     | <b>Bones:</b> Skull & lower jaw in frog/toad, turtle/tortoise, poisonous snake, <i>Columba</i> & <i>Cavia</i> ; Vertebrae, limb bones & girdles in <i>Columba</i> & <i>Cavia</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | One Full set |
| 5     | <b>Specimen:</b> <i>Trypoezaincertulus</i> , <i>Leucinoides carbonalis</i> , <i>Pyrilla perpusilla</i> , <i>Sitophilus oryzae</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 each       |
| 6     | <b>Specimen:</b> <i>Exocoetus</i> , Sucker fish, Flat fish, <i>Rhachophorous</i> , <i>Phrynosoma</i> , <i>Draco</i> , <i>Columba</i> , <i>Pteropus</i> , <i>Funambulus</i> & Mole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 each       |
| 7     | <b>Stained Slides of Histological sections:</b> liver, stomach, intestine, cartilage, bone, spinal cord, nerve cell, pituitary, pancreas, testis, ovary, adrenal, thyroid, and parathyroid, Mammalian spleen, thymus, lymph node and blood leucocytes. Prostate gland, Uterus, Tongue, Eye, and Neuroepithelium.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | One Full set |
| 8     | <b>Specimen:</b> <i>Scoliodon</i> , <i>Tryonix</i> , <i>Catla</i> , <i>Cirrhinus</i> , <i>Ctenopharyngodon</i> , <i>Chanda</i> , <i>Wallago</i> , <i>Ophiocephalus</i> , <i>Mystus</i> , <i>Clarias</i> , <i>Heteropneustes</i> & <i>Anabas</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 each       |
| 9     | <b>Specimen:</b> <i>Balantidium</i> sp., <i>Trypanosoma</i> sp, <i>Leishmania</i> sp, <i>Plasmodium</i> sp, <i>Fasciola</i> sp, <i>Taenia</i> sp, <i>Cimex</i> sp, <i>Pediculus</i> sp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 each       |
| 10    | <b>Stained Slides of Histological sections:</b> spleen, thymus, lymph nodes, bursa of Fabricius, and bone marrow.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | One Full set |
| 11    | <b>Permanent slides:</b> Frog- Cleavage stages, blastula, gastrula, tail-bud stage, tadpole (external and internal gill stages).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | One Full set |
| 12    | <b>Developmental stages of chick through permanent slides:</b> Primitive streak (13 and 18 hours), 21, 24, 28, 33, 36, 48, 72, and 96 hours of incubation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | One Full set |
| 13    | <b>Slides of different types of placenta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | One Full set |
| 14    | <b>Specimen:</b> <i>Antheraea</i> sp., <i>Bombyx mori</i> , <i>Penaeus</i> sp., <i>Macrobrachium</i> sp., <i>Pinctada</i> sp., <i>Eisenia</i> sp, and <i>Apis dorsata</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 each       |
| 15    | <b>Specimens/ slides:</b> Protozoan parasites (e.g., Signet ring of malaria parasite, <i>Entamoeba histolytica</i> (trophozoite), <i>Leishmania donovani</i> ); Helminthic parasites (e.g., Liver fluke, <i>Ascaris</i> sp., <i>Microfilaria</i> larva); Vectors (e.g., Tick, Mite, Head of female <i>Anopheles</i> and <i>Culex</i> mosquitoes, <i>Pediculus</i> sp., <i>Cimex</i> sp.).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 each       |



## Department of Botany, Jhargram Raj College

(Annexure-A)

## Class workout materials list

| Sl. No. | Specimens                                     | Quantity |
|---------|-----------------------------------------------|----------|
| 1.      | <i>Riccia</i> gametophyte                     | 2 units  |
| 2.      | <i>Marchantia</i> Gemame                      | 2 units  |
| 3.      | <i>Marchantia</i> antheriodiophore            | 2 units  |
| 4.      | <i>Marchantia</i> archegoniophore             | 2 units  |
| 5.      | <i>Anthoceros</i> gametophyte with sporophyte | 2 units  |
| 6.      | <i>Pogonatum</i> gametophyte with sporophyte  | 2 units  |
| 7.      | <i>Funaria</i> gametophyte with sporophyte    | 2 units  |
| 8.      | <i>Selaginella</i> Veg. & Rep. bodies         | 2 units  |
| 9.      | <i>Equisetum</i> Veg. & Rep. bodies           | 2 units  |
| 10.     | <i>Adiantum</i> Veg. & Rep. bodies            | 2 units  |
| 11.     | <i>Pinus</i> Veg. & Rep. bodies               | 2 units  |
| 12.     | <i>Cycas</i> Veg. & Rep. bodies               | 2 units  |
| 13.     | <i>Gnetum</i> Veg. & Rep. bodies              | 2 units  |
| 14.     | <i>Rhizopus</i> Veg. & Rep. bodies            | 2 units  |
| 15.     | <i>Penicillium</i> Veg. & Rep. bodies         | 2 units  |
| 16.     | Black stem rust of wheat                      | 2 units  |
| 17.     | Rust of crucifer                              | 2 units  |
| 18.     | <i>Oscillatoria</i>                           | 2 units  |
| 19.     | <i>Rivularia</i>                              | 2 units  |
| 20.     | <i>Nostoc</i>                                 | 2 units  |
| 21.     | <i>Oedogonium</i>                             | 2 units  |
| 22.     | <i>Trentepohlia</i>                           | 2 units  |
| 23.     | <i>Cladophora</i>                             | 2 units  |
| 24.     | <i>Chara</i>                                  | 2 units  |
| 25.     | <i>Vaucheria</i>                              | 2 units  |
| 26.     | <i>Fucus</i>                                  | 2 units  |
| 27.     | <i>Ectocarpus</i>                             | 2 units  |
| 28.     | <i>Polyisiphonia</i>                          | 2 units  |

(Annexure-B)

## Permanent slides

| Sl. No. | Slides                       | Quantity |
|---------|------------------------------|----------|
| 1.      | Laggard chromosome           | 1        |
| 2.      | Sticky bridge                | 1        |
| 3.      | Polytene Chromosome          | 1        |
| 4.      | Meiosis – Metaphase II       | 1        |
| 5.      | Meiosis – Anaphase II        | 1        |
| 6.      | Meiosis - Pachytene          | 1        |
| 7.      | Meiosis - Diplotene          | 1        |
| 8.      | Meiosis - Diakinesis         | 1        |
| 9.      | Lampbrush chromosome         | 1        |
| 10.     | Endosperm - Cellular         | 1        |
| 10.     | Endosperm - Nuclear          | 1        |
| 11.     | Endosperm - Helobial         | 1        |
| 12.     | Embryo development - Dicot   | 1        |
| 13.     | Embryo development - monocot | 1        |



*(Annexure-C)*  
Chemicals list

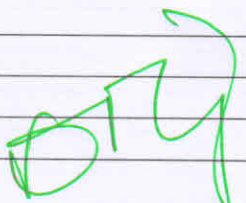
| Sl. No. | Slides          | Quantity |
|---------|-----------------|----------|
| 1.      | Sulfuric acid   | 2 litres |
| 2.      | Ethanol         | 5 litres |
| 3.      | TTC             | 10 gm    |
| 4.      | Agar agar       | 1 kg     |
| 5.      | Nutrient Broth  | 1 kg     |
| 6.      | Petroleum ether | 5 litres |
| 7.      | Acetone         | 5 litres |
| 8.      | Hexane          | 5 litres |
| 9.      | LB media        | 1 kg     |
| 10.     | Methanol        | 5 litres |
| 10.     | Di ethyl ether  | 3 litres |
| 11.     | Chloroform      | 5 litres |

*(Annexure-D)*  
Miscellaneous list

| Sl. No. | Slides                                                                                     | Quantity  |
|---------|--------------------------------------------------------------------------------------------|-----------|
| 1.      | 250 ml Conical flask                                                                       | 20 pieces |
| 2.      | Inoculation loop (copper)                                                                  | 10 pieces |
| 3.      | Inoculation needle (copper)                                                                | 10 pieces |
| 4.      | Disposable Microtome blade for Rotary Microtome (Model No. Weswox Optik; MT – 1090 A 15772 | 2 pieces  |
| 5.      | Blotting Paper                                                                             | 2 rolls   |
| 6.      | Filter paper Whattman No. 10                                                               | 10 Boxes  |
| 7.      | Tissue paper                                                                               | 2 rolls   |
| 8.      | Brown paper                                                                                | 2 rolls   |
| 9.      | Petri dish 30 mm x 10 mm                                                                   | 20 pairs  |
| 10.     | Petri dish 60 mm x 15 mm                                                                   | 20 pairs  |
| 11.     | Petri dish 90 mm x 15 mm                                                                   | 20 pairs  |
| 12.     | Hand microtome                                                                             | 2 pieces  |
| 13.     | Spatula 12 inches                                                                          | 2 pieces  |
| 14.     | Mortar and Pestle (Big Size, black Iron Masher                                             | 2 pieces  |

Department of Chemistry (U.G &P.G)  
List of Chemicals, Glass Goods and Other Items

| Sl No. | Name of Chemicals              | Manufacture | Quantity |
|--------|--------------------------------|-------------|----------|
| 1.     | 4-Nitrobenzaldehyde            | MERCK       | 25 gm    |
| 2.     | Acetic acid                    | MERCK       | 500 ml   |
| 3.     | Acetone                        | MERCK       | 2.5 L    |
| 4.     | Acetonitrile                   | MERCK       | 2.5 L    |
| 5.     | Acetylacetone                  | MERCK       | 500 ml   |
| 6.     | Aluminium chloride hexahydrate | MERCK       | 500 gm   |

  
Principal  
Jhargram Raj College

|     |                                    |       |        |
|-----|------------------------------------|-------|--------|
| 7.  | Aluminium nitrate nonahydrate      | MERCK | 500 gm |
| 8.  | Ammonia                            | MERCK | 500 mL |
| 9.  | Ammonium chloride                  | MERCK | 500 mL |
| 10. | Ammonium dihydrogen phosphate      | MERCK | 500 m  |
| 11. | Ammonium nitrate                   | MERCK | 500 gm |
| 12. | Ammonium persulphate               | MERCK | 500 gm |
| 13. | Isoamyl alcohol                    | MERCK | 500 ml |
| 14. | Ascorbic acid                      | MERCK | 500 gm |
| 15. | Barium nitrate                     | MERCK | 500 gm |
| 16. | Barium sulphate                    | MERCK | 500 gm |
| 17. | Benzaldehyde                       | MERCK | 500 mL |
| 18. | Benzoic acid                       | MERCK | 500 gm |
| 19. | Benzoyl chloride                   | MERCK | 500 ml |
| 20. | Bismuth nitrate                    | MERCK | 500 gm |
| 21. | Bismuth nitrate                    | MERCK | 100 gm |
| 22. | Brass filings                      | MERCK | 1 kg   |
| 23. | Bromocresol green                  | MERCK | 5 gm   |
| 24. | Cadmium chloride                   | MERCK | 100 gm |
| 25. | Calcium chloride(fused)            | MERCK | 500 gm |
| 26. | Calcium nitrate                    | MERCK | 500 gm |
| 27. | Calcium sulphate                   | MERCK | 500 gm |
| 28. | Carbon tetrachloride               | MERCK | 2.5L   |
| 29. | Charcoal activated                 | MERCK | 500 gm |
| 30. | Chlorobenzene                      | MERCK | 2.5 L  |
| 31. | Chloroform                         | MERCK | 2.5 L  |
| 32. | Cinnamic acid                      | MERCK | 250 gm |
| 33. | Citric acid                        | MERCK | 500 gm |
| 34. | Cobalt(II) chloride                | MERCK | 250 gm |
| 35. | Copper(II) nitrate                 | MERCK | 500 g  |
| 36. | Crotonaldehyde                     | MERCK | 100 mL |
| 37. | Cyclohexanone                      | MERCK | 500 ml |
| 38. | Dextrose                           | MERCK | 500 g  |
| 39. | Dichloromethane                    | MERCK | 500 mL |
| 40. | Ethylacetoacetate                  | MERCK | 500 mL |
| 41. | Ethylene diamine                   | MERCK | 500 ml |
| 42. | Ferric chloride (anhydrous)        | MERCK | 500 gm |
| 43. | Ferric nitrate                     | MERCK | 500 gm |
| 44. | Ferrous sulphate                   | MERCK | 500 gm |
| 45. | Hydrochloric acid                  | MERCK | 2.5 L  |
| 46. | Hydrogen peroxide 100 Vol 30%(w/v) | MERCK | 500 mL |
| 47. | Hydroquinone                       | MERCK | 500 gm |
| 48. | Iodine (sublimed)                  | MERCK | 100 gm |
| 49. | Lead acetate                       | MERCK | 500 gm |
| 50. | Magnesium chloride                 | MERCK | 500 gm |
| 51. | Manganese(IV) dioxide              | MERCK | 500 gm |
| 52. | Mesityloxide                       | MERCK | 100 mL |
| 53. | Methyl acetate                     | MERCK | 500 mL |
| 54. | Nickel chloride                    | MERCK | 500 gm |



|      |                                             |       |                |
|------|---------------------------------------------|-------|----------------|
| 55.  | Ninhydrin                                   | MERCK | 10 gm          |
| 56.  | Nitric acid                                 | MERCK | 2.5 L          |
| 57.  | Nitrobenzene                                | MERCK | 500 ml         |
| 58.  | p- aminobenzoic acid                        | MERCK | 100 gm         |
| 59.  | p-Bromoacetanilide                          | MERCK | 500 gm         |
| 60.  | Perchloric acid 60%                         | MERCK | 500 mL         |
| 61.  | Potassium bromate                           | MERCK | 100 gm         |
| 62.  | Potassium fluoride                          | MERCK | 500 gm         |
| 63.  | Ninhydrin                                   | MERCK | 10 gm          |
| 64.  | Potassium hydroxide                         | MERCK | 500 gm         |
| 65.  | Potassium persulphate                       | MERCK | 500g           |
| 66.  | Silica gel TLC Plate 60                     | MERCK | LXW= 20X 20 cm |
| 67.  | Silver nitrate                              | Merck | 25g            |
| 68.  | Sodium bicarbonate                          | MERCK | 500g           |
| 69.  | Sodium carbonate anhydrous                  | MERCK | 500g           |
| 70.  | Sodium sulphite                             | MERCK | 500 gm         |
| 71.  | Stainless Steel ganuaes                     | MERCK | 1kg            |
| 72.  | Strontium nitrate                           | MERCK | 500 gm         |
| 73.  | Sulphuric acid                              | MERCK | 2.5 L          |
| 74.  | Tartaric acid                               | MERCK | 500 gm         |
| 75.  | Thiourea                                    | MERCK | 500 gm         |
| 76.  | Urea                                        | MERCK | 500 gm         |
| 77.  | Zinc nitrate hexahydrate                    | MERCK | 500 gm         |
| 78.  | Zinc acetate dihydrate                      | MERCK | 500g           |
| 79.  | Iron(III) nitrate nonahydrate               | MERCK | 500 g          |
| 80.  | 8-Aminoquinoline                            | MERCK | 5 gm           |
| 81.  | 2, 7-dichlorofluorescein (dcf) ar, acs, 90% | SRL   | 5 GM           |
| 82.  | Acetic acid (glacial)                       | MERCK | 500 ML         |
| 83.  | Ammonia 98% pure                            | MERCK | 2.5 LITRES     |
| 84.  | Ammonium iron (ii) sulphate                 | MERCK | 500 GM         |
| 85.  | Bromocresol green indicator                 | SRL   | 5 GM           |
| 86.  | Carbon tetrachloride                        | MERCK | 500 ML         |
| 87.  | Ctab AR, exiplus, 99%                       | SRL   | 100 GM         |
| 88.  | Hydrochloric acid                           | MERCK | 2.5 LITRES     |
| 89.  | Hydrogen peroxide 30%                       | MERCK | 500 ML         |
| 90.  | Methyl acetate                              | MERCK | 500 ML         |
| 91.  | Nitric acid                                 | MERCK | 2.5 LITRES     |
| 92.  | Oxalic acid                                 | MERCK | 500 GM         |
| 93.  | Phenol                                      | MERCK | 500 GM         |
| 94.  | Phosphoric acid                             | MERCK | 500 ML         |
| 95.  | Potassium bromide                           | SRL   | 500 GM         |
| 96.  | Potassium chloride (GR)                     | MERCK | 500 GM         |
| 97.  | Potassium chloride (ordinary)               | MERCK | 500 GM         |
| 98.  | Potassium dichromate                        | MERCK | 500 GM         |
| 99.  | Potassium ferricyanide                      | MERCK | 500 GM         |
| 100. | Potassium ferrocyanide                      | MERCK | 500 GM         |

|      |                                  |       |          |
|------|----------------------------------|-------|----------|
| 101. | Potassium hydrogen tartrate      | SRL   | 500 GM   |
| 102. | Potassium hydroxide pellet       | MERCK | 500 GM   |
| 103. | Potassium iodide (GR)            | MERCK | 500 GM   |
| 104. | Potassium iodide (ordinary)      | MERCK | 500 GM   |
| 105. | Potassium permanganate           | MERCK | 500 GM   |
| 106. | Potassium peroxodisulphate       | MERCK | 250 GM   |
| 107. | SDS, AR                          | SRL   | 100 GM   |
| 108. | Sodium hydroxide (pellets)       | MERCK | 500 GM   |
| 109. | Sodium thiosulphate anhydrous    | SRL   | 500 GM   |
| 110. | Sodium thiosulphate pentahydrate | SRL   | 500 GM   |
| 111. | Sucrose                          | MERCK | 500 GM   |
| 112. | Chloroform                       | MERCK | 500ml    |
| 113. | Ethyl methyl ketone              | MERCK | 500 ml   |
| 114. | Acetyl acetone                   | MERCK | 500 ml   |
| 115. | Crotonaldehyde                   | MERCK | 500 ml   |
| 116. | Mesityl oxide                    | MERCK | 500 ml   |
| 117. | Anisole                          | MERCK | 500 ml   |
| 118. | Sodium tetrachloroaurate         | MERCK | 500 ml   |
| 119. | Acetyl chloride                  | MERCK | 500 ml   |
| 120. | Magnesium sulphate               | MERCK | 500 gm   |
| 121. | Thiamine hydrochloride           | MERCK | 100 gm   |
| 122. | Ethanol                          | MERCK | 500 ml   |
| 123. | Resorcinol                       | MERCK | 500 gm   |
| 124. | Benzaldehyde                     | MERCK | 500 ml   |
| 125. | Urea                             | MERCK | 500 gm   |
| 126. | Ethyl acetate                    | MERCK | 500 ml   |
| 127. | Methyl acetate                   | MERCK | 500 ml   |
| 128. | Salicylaldehyde                  | MERCK | 250 ml   |
| 129. | m-Dinitrobenzene                 | MERCK | 500 gm   |
| 130. | Potassium bromate                | MERCK | 250 gm   |
| 131. | Potassium bromide                | MERCK | 250 gm   |
| 132. | Phenol                           | MERCK | 500 ml   |
| 133. | Benzoyl chloride                 | MERCK | 500 ml   |
| 134. | Ethyl acetoacetate               | MERCK | 500 ml   |
| 135. | Formaldehyde                     | MERCK | 500 ml   |
| 136. | m-Chloro aniline                 | MERCK | 500 gm   |
| 137. | Hydroxylamine hydrochloride      | MERCK | 250 gm   |
| 138. | Benzoyl chloride                 | MERCK | 500 ml   |
| 139. | Activated charcoal               | MERCK | 250 gm   |
| 140. | Sodium carbonate                 | MERCK | 500 gm   |
| 141. | Sodium hypochloride              | MERCK | 250 ml   |
| 142. | Fluorescein                      | MERCK | 50 ml    |
| 143. | Methylene blue                   | MERCK | 50 ml    |
| 144. | TLC plate                        | MERCK | 2 Packet |
| 145. | Silica gel (60-120 mesh)         | MERCK | 500 gm   |
| 146. | Petroleum ether                  | MERCK | 5 litre  |
| 147. | Glycine                          | MERCK | 100 gm   |



|      |                                                                                                                |              |                                       |
|------|----------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------|
| 148. | Tryptophan                                                                                                     | MERCK        | 100 gm                                |
| 149. | Tyrosine                                                                                                       | MERCK        | 100 gm                                |
| 150. | Alanine                                                                                                        | MERCK        | 100 gm                                |
| 151. | Whatman filter paper no. 1 as chromatographic paper                                                            | MERCK        | 1 packet                              |
| 152. | TLC Plate (9"×6") for separation of amino acids                                                                | MERCK        | 8 pcs                                 |
| 153. | Glucose                                                                                                        | MERCK        | 500 gm                                |
| 154. | Liquid carbondioxide                                                                                           | MERCK        |                                       |
| 155. | Parafilm                                                                                                       |              |                                       |
| 156. | Talc                                                                                                           | MyOC/Pioneer | 2kg                                   |
| 157. | Zinc oxide                                                                                                     | MyOC/Pioneer | kg                                    |
| 158. | Zinc Stearate                                                                                                  | MyOC/Pioneer | 500g                                  |
| 159. | Rice Starch                                                                                                    | MyOC/Pioneer | 500 g                                 |
| 160. | Colour                                                                                                         | MyOC/Pioneer | 100g                                  |
| 161. | Perfumes                                                                                                       | MyOC/Pioneer | 50 ml                                 |
| 162. | Calcium Hydroxide                                                                                              | MyOC/Pioneer | 1 kg                                  |
| 163. | Barium Sulfide                                                                                                 | MyOC/Pioneer | 100g                                  |
| 164. | Sodium Lauryl sulfate                                                                                          | MyOC/Pioneer | 1 kg                                  |
| 165. | Glycerin                                                                                                       | MyOC/Pioneer | 1 kg                                  |
| 166. | Citric Acid                                                                                                    | MyOC/Pioneer | 500 gm                                |
| 167. | Sodium Benzoate                                                                                                | MyOC/Pioneer | 1 kg                                  |
| 168. | Colour (Green)                                                                                                 | MyOC/Pioneer | 100 gm                                |
| 169. | Stearic Acid                                                                                                   | MyOC/Pioneer | 1 kg                                  |
| 170. | Cetyl alcohol                                                                                                  | MyOC/Pioneer | 100g                                  |
| 171. | Liquid paraffin                                                                                                | MyOC/Pioneer | 1 lt                                  |
| 172. | Beewax                                                                                                         | MyOC/Pioneer | 500 gm                                |
| 173. | Sodium Borate                                                                                                  | MyOC/Pioneer | 300 gm                                |
| 174. | Isopropyl Alcohol                                                                                              | MyOC/Pioneer | 1 li                                  |
| 175. | Nitrocellulose                                                                                                 | MyOC/Pioneer | 500 gm                                |
| 176. | Butyl acetate                                                                                                  | MyOC/Pioneer | 500 ml                                |
| 177. | Alkali Resin                                                                                                   | MyOC/Pioneer |                                       |
| 178. | Graduated Pipette                                                                                              | Borosil      | 1 ml                                  |
| 179. | Graduated Pipette                                                                                              | Borosil      | 2 ml                                  |
| 180. | Burette                                                                                                        | Borosil      | 50 ml                                 |
| 181. | Porcelain Buchner Funnel                                                                                       | Borosil      | 60 ml                                 |
| 182. | Porcelain Buchner funnel                                                                                       | Borosil      | 100 ml                                |
| 183. | Porcelain Buchner funnel                                                                                       | Borosil      | 325 ml                                |
| 184. | Beaker, Low form, with Spout and Graduation.                                                                   | Borosil      | 10 ml                                 |
| 185. | Flask, Boiling, Round Bottom, Two Neck, Centre Neck and One Angled, Side Neck with Interchangeable Joint.      | Borosil      | 250 ml (24/29) and side joint (19/26) |
| 186. | Test tube                                                                                                      | Borosil      | 10 ml                                 |
| 187. | Condenser, Graham, Coiled Distillate type, Drip Tip Interchangeable Inner Joint & Interchangeable Outer Joint. | Borosil      | 400 mm 24/29 24/29                    |
| 188. | Tube, Culture media, Flat Bottom with Screw Cap and Rubber Liner                                               | Borosil      | 5 ml                                  |
| 189. | Flask, Boiling, Round Bottom, Short Neck, with interchangeable Joint.                                          | Borosil      | 250 ml (24/29)                        |
| 190. | Flask, Boiling, Round Bottom, Two Neck, Centre Neck and One Angled, Side Neck with Interchangeable Joint.      | Borosil      | 100 ml (24/29) and side joint (19/26) |

|      |                                                                              |         |                |
|------|------------------------------------------------------------------------------|---------|----------------|
| 191. | Flask, Boiling, Round Bottom, Short Neck, with interchangeable Joint.        | Borosil | 100 ml (24/29) |
| 192. | Flask, Erlenmeyer, Conical, Narrow Mouth, Interchangeable Hexagonal Stopper. | Borosil | 100 ml (24/29) |

## Department of Physiology, Jhargram Raj College

### 1. Study Materials

| Sl. No. | Item / Reagent Name                                                   | Qty   |
|---------|-----------------------------------------------------------------------|-------|
| 1       | 3D anatomical model set — Human Brain (with removable/labelled parts) | 1     |
| 2       | 3D anatomical model set — Human Skull                                 | 1     |
| 3       | 3D anatomical model set — Human Muscular System (torso/muscle model)  | 1     |
| 4       | Prepared tissue slide set for Histology (demonstration set)           | 1 set |

### 2. Chemicals & Practical Instruments

#### Category A: Computer, Electronics Goods and Accessories

| Sl. No. | Item / Reagent Name                                               | Qty |
|---------|-------------------------------------------------------------------|-----|
| 1       | Extension cord / spike-guard (4–6 outlet, 4–5 metre)              | 1   |
| 2       | Wireless (Wi-Fi/Bluetooth) mouse                                  | 1   |
| 3       | Presenter remote with laser/projector pointer light               | 2   |
| 4       | Sphygmomanometer (blood-pressure instrument)                      | 2   |
| 5       | Anthropometric caliper set (skinfold + spreading/sliding caliper) | 1   |

#### Category F: Glassware and Chemicals

| Sl. No.                                                                | Item / Reagent Name                                                   | Qty             |
|------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------|
| 1                                                                      | Blood staining reagent — Leishman's stain                             | 1 set           |
| 2                                                                      | Blood grouping reagent set — Anti-A, Anti-B, Anti-D (Rh) typing sera  | 1 set           |
| 3                                                                      | Silver nitrate (AgNO <sub>3</sub> ) reagent for fresh-tissue staining | 1 bottle (25 g) |
| <b><i>Carbohydrate estimation (qualitative &amp; quantitative)</i></b> |                                                                       |                 |
| 4                                                                      | Molisch's reagent ( $\alpha$ -naphthol)                               | 1 bottle        |
| 5                                                                      | Conc. Sulphuric acid (H <sub>2</sub> SO <sub>4</sub> )                | 1 bottle        |
| 6                                                                      | Benedict's reagent                                                    | 1 bottle        |
| 7                                                                      | Glucose standard                                                      | 1 vial          |
| <b><i>Protein estimation (qualitative &amp; quantitative)</i></b>      |                                                                       |                 |
| 8                                                                      | Biuret reagent                                                        | 1 bottle        |
| 9                                                                      | Ninhydrin reagent                                                     | 1 bottle        |
| 10                                                                     | Folin-Ciocalteu reagent                                               | 1 bottle        |
| 11                                                                     | Bradford reagent (Coomassie Brilliant Blue G-250)                     | 1 bottle        |
| 12                                                                     | BSA (Bovine Serum Albumin) standard                                   | 1 vial          |
| <b><i>Lipid estimation (qualitative &amp; quantitative)</i></b>        |                                                                       |                 |
| 13                                                                     | Sudan III                                                             | 1 bottle        |
| 14                                                                     | Sudan Black B                                                         | 1 bottle        |
| 15                                                                     | Chloroform                                                            | 1 bottle        |
| 16                                                                     | KOH-ethanol solution                                                  | 1 bottle        |
| 17                                                                     | Phenolphthalein indicator                                             | 1 bottle        |
| <b><i>DNA/RNA separation (isolation)</i></b>                           |                                                                       |                 |
| 18                                                                     | Tris-EDTA (TE) buffer                                                 | 1 bottle        |

Principal  
Jhargram Raj College



| Sl. No.                                       | Item / Reagent Name                | Qty      |
|-----------------------------------------------|------------------------------------|----------|
| 19                                            | SDS (Sodium dodecyl sulphate)      | 1 bottle |
| 20                                            | Sodium acetate (3M)                | 1 bottle |
| 21                                            | Agarose                            | 1 pack   |
| 22                                            | Ethidium bromide / gel loading dye | 1 vial   |
| <b>SGOT, SGPT and Triglyceride estimation</b> |                                    |          |
| 23                                            | SGOT (AST) estimation kit          | 1 kit    |
| 24                                            | SGPT (ALT) estimation kit          | 1 kit    |
| 25                                            | Triglyceride estimation kit        | 1 kit    |

| Sl. No. | Name of the Department                                                                                                                  | Requirements others contingency |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 01      | Department of Mathematics, Commerce, Economics, Bengali, History, Political Science, Physical Education, English, Philosophy, Sanskrit, | Contact HoD for details         |

Tender completed in all respect should reach in the office of the Principal, Jhargram Raj College, Jhargram latest by 14.00 Hours on 25<sup>th</sup> September, 2026.

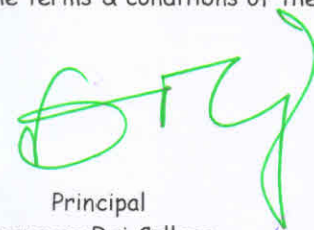
The tender will be opened on the same day at 15.00 Hours.

Rates & specification should be quoted in the respective tender inclusive of all taxes and delivery charges, if any.

Rates inclusive of all taxes should be valid up to 31.03.2027.

The detailed terms and conditions of the tender and item wise number and specification may be obtained from the office of the undersigned and it can also be seen on college website- [www.jrc.ac.in](http://www.jrc.ac.in).

The undersigned reserves every right to reject /cancel any or all tender and to alter/amend the terms & conditions of the tender without assigning any reason thereof, if required.



Principal  
Jhargram Raj College.  
**Principal**  
**Jhargram Raj College**

No. 493 (8)/NIT/2026-27

Date: 11.09.2026

Copy forwarded for information and taking necessary action to:

1. The Hon'ble District Magistrate, Jhargram
2. The Sub-Divisional Officer, Jhargram.
3. The Treasury Officer, Jhargram.
4. The Block Development Officer, Jhargram.
5. The Post Master, Jhargram.
6. The Administrator, Jhargram Municipality.
7. College Notice Board.
8. The Convener of the Purchase Advisory Sub-Committee, Jhargram Raj College with a request to upload this tender notice in the College Website at the earliest.



Principal  
Jhargram Raj College.  
**Principal**  
**Jhargram Raj College**