



# Central Instrument Facility (CIF)

IIT (BHU), Varanasi – 221005

## User Charge List



| Name of Test to be carried out using Gleeble and Charges per test |                                                                                                                                                                              |                               |                               |                                                |                  |              |                  |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------------------------|------------------|--------------|------------------|
| Sl No.                                                            | Name of Test                                                                                                                                                                 | IIT (BHU) & BHU Users         |                               | Other Institutes/ Govt. R&D Labs / Consultancy |                  | Industry     |                  |
|                                                                   | Gleeble 3800-GTC Simulation System                                                                                                                                           | Below 1000 C                  | 1000 C and above              | Below 1000 C                                   | 1000 C and above | Below 1000 C | 1000 C and above |
| 1                                                                 | Hot tensile Test / Hot Ductility Test / Welding Thermal Cycle Simulation Test (Using Tensile or Impact Speciment )                                                           | ₹ 1500 Per Sample (Max 1 Hr.) | ₹ 2000 Per Sample (Max 1 Hr.) | ₹ 5,000.00                                     | ₹ 5,500.00       | ₹ 9,000.00   | ₹ 10,000.00      |
| 2                                                                 | Flow Stress Hot Deformation Compression / Plane Strain Compression Test                                                                                                      | 2000 Per Sample (Max 1 Hr.)   | 3000 Per Sample (Max 1 Hr.)   | ₹ 5,000.00                                     | ₹ 6,000.00       | ₹ 10,000.00  | ₹ 11,000.00      |
| 3                                                                 | Multi-pass Hot Rolling Simulation / Heat Treatment, per hour.                                                                                                                | 3000 Per Sample (Max 1 Hr.)   | 4000 Per Sample (Max 1 Hr.)   | ₹ 10,000.00                                    | ₹ 12,000.00      | ₹ 15,000.00  | ₹ 18,000.00      |
| 4                                                                 | CryoQuench*                                                                                                                                                                  | 7000 Per Sample (Max 1 Hr.)   | 8000 Per Sample (Max 1 Hr.)   | ₹ 12,000.00                                    | ₹ 14,000.00      | ₹ 24,000.00  | ₹ 25,000.00      |
| 5                                                                 | Thermal Fatigue Test, per hour                                                                                                                                               | ₹ 2,000.00                    | ₹ 3,000.00                    | ₹ 5,000.00                                     | ₹ 5,500.00       | ₹ 9,000.00   | ₹ 10,000.00      |
|                                                                   | Additional Per Hour upto 5 Hr                                                                                                                                                | ₹ 1,500.00                    | ₹ 2,000.00                    | ₹ 2,000.00                                     | ₹ 2,500.00       | ₹ 5,000.00   | ₹ 5,500.00       |
| 6                                                                 | Dilation Test-Coventional                                                                                                                                                    |                               |                               |                                                |                  |              |                  |
|                                                                   | For 1 Hr per sample                                                                                                                                                          | ₹ 2,000.00                    | ₹ 2,500.00                    | ₹ 5,000.00                                     | ₹ 6,000.00       | ₹ 10,000.00  | ₹ 12,000.00      |
|                                                                   | Additional Per Hour upto 5 Hr                                                                                                                                                | ₹ 1,000.00                    | ₹ 1,500.00                    | ₹ 2,500.00                                     | ₹ 3,000.00       | ₹ 5,000.00   | ₹ 6,000.00       |
| 7                                                                 | High Strain Rate Tensile Test at Room Temperature                                                                                                                            | 4000 Per Sample (Max 1 Hr.)   |                               | ₹ 8,000.00                                     |                  | ₹ 10,000.00  |                  |
| 8                                                                 | Continuous Casting Simulation                                                                                                                                                | ₹ 12,000.00                   |                               | ₹ 15,000.00                                    |                  | ₹ 20,000.00  |                  |
| Note                                                              | * With water quench, the charges will be 20 % extra and the CryoQuench sample will be done on the basis of availibility of Liq Nitrogen Tank.                                |                               |                               |                                                |                  |              |                  |
|                                                                   | ** The above charges has been fixed for heating the sample through Joule Heating Technique, if user required the induction heating, the above charges will become 1.3 times. |                               |                               |                                                |                  |              |                  |
|                                                                   | *** User committee will decide the rate of other experiments not mentioned in the list.                                                                                      |                               |                               |                                                |                  |              |                  |

Pinak