## TESTING SERVICES AND RATES OF CSIR-NEIST, JORHAT

### Sophisticated Analytical Equipments and charges

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Sample</th>
<th>Description of Job</th>
<th>Cliental Type</th>
<th>Revised Total Charges (in ₹ / per sample Excluding taxes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Analysis in Sophisticate equipments</td>
<td>FESEM</td>
<td>Industry</td>
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<tr>
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<td>Educational Institute/Research Institute</td>
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<td>Industry</td>
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<td>FESEM &amp; EDX</td>
<td>CSIR-NEIST</td>
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<td>3</td>
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<td>5</td>
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<td>Fluorescence Spectrophotometer (1hour/5 samples)</td>
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<td>Fluorescence Spectrophotometer (Time resolve)</td>
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<td>HRTEM-Sample preparation</td>
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<td>HRTEM (Imaging)</td>
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<td>HRTEM-HAADF</td>
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<td>HRTEM-Bright Field</td>
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<td>HRTEM-EDS</td>
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<td>HRTEM-EDS &amp; Mapping</td>
<td>Industry</td>
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<td>HRTEM-STM</td>
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<td>HRTEM-All</td>
<td>CSIR-NEIST</td>
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## Testing charges of other equipments

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Sample</th>
<th>Description of Job</th>
<th>Revised Total Charges (Excluding taxes)</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Engineering Materials</td>
<td>Tensile Test (Ultimate Tensile Strength, Yield Strength and Elongation)</td>
<td>2200/sample</td>
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<tr>
<td>2</td>
<td>Bend Test</td>
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<td>1200/sample</td>
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<tr>
<td>3</td>
<td>Hardness Test (conducted in 3 scales/types viz., Rockwell, Brinell &amp; Vickers)</td>
<td></td>
<td>1200/type of test/sample</td>
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<tr>
<td>4</td>
<td>Unit weight</td>
<td></td>
<td>200/sample</td>
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<td></td>
<td><strong>Sample preparation charge</strong></td>
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<td>1000/sample</td>
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<tr>
<td>5</td>
<td>Effluent Water</td>
<td>BOD Biological Oxygen Demand</td>
<td>2150/sample</td>
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<tr>
<td>6</td>
<td>COD Chemical Oxygen Demand</td>
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<td>1500/sample</td>
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<tr>
<td>7</td>
<td>TOC Total Organic Carbon</td>
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<td>2000/sample</td>
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<tr>
<td>8</td>
<td>Water</td>
<td>Total count (bacterial)</td>
<td>500/sample</td>
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<tr>
<td>9</td>
<td>Bacteriological Analysis (Total count, Coliform &amp; E.coli)</td>
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<td>750/sample</td>
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<tr>
<td>10</td>
<td>Yeast &amp; Mold count</td>
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<td>750/sample</td>
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<tr>
<td>11</td>
<td>SRB Count</td>
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<td>1000/sample</td>
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<tr>
<td>12</td>
<td>pH, Total Solids, Turbidity, Alkalinity, Hardness, Calcium, Magnesium, Sulphate, Chloride &amp; Iron</td>
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<td>1000/sample</td>
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<tr>
<td>13</td>
<td>pH, Total Solids, Turbidity, Alkalinity, Hardness, Calcium, Magnesium, Sulphate, Chloride, Iron, Sodium, Potassium, Manganese and Zinc</td>
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<td>3000/sample1</td>
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<tr>
<td>14</td>
<td>Iron only</td>
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<td>300/sample</td>
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<td>15</td>
<td>Silt</td>
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<td>500/sample</td>
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<td>16</td>
<td>pH/Conductivity- each</td>
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<td>250/sample</td>
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<td>17</td>
<td>Other samples</td>
<td>Yeast &amp; Mold Count</td>
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<tr>
<td>18</td>
<td>Total Count (bacterial)</td>
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<td>3500/sample</td>
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<td>19</td>
<td>Soil</td>
<td>Atterberg’s Limit</td>
<td>350/sample2</td>
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<tr>
<td>20</td>
<td>Natural moisture content</td>
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<td>250/sample</td>
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<tr>
<td>21</td>
<td>Grain size analysis: sieve</td>
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<td>650/sample2</td>
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<td>22</td>
<td>Grain size analysis: Hydrometer</td>
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<td>2250/sample</td>
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<td>23</td>
<td>Dry and Bulk Density</td>
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<td>550/sample</td>
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<td>24</td>
<td>Specific Gravity and Void Ratio</td>
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<td>550/sample</td>
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<tr>
<td>25</td>
<td>Unconfined Compression Test</td>
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<td>26</td>
<td>Triaxial Test (Undrained unconsolidated)</td>
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<td>27</td>
<td>Permeability Test (Laboratory)</td>
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<td>28</td>
<td>Vane Shear Test</td>
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<td>4800/sample</td>
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<td>29</td>
<td>Consolidation Test</td>
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<td>30</td>
<td>Free Swelling Index Test</td>
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<td>600/sample</td>
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<td>31</td>
<td>Field Proctor Density and CBR values</td>
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<td>32</td>
<td>Laboratory CBR Tests as specified soaked condition</td>
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<td>4800/sample</td>
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<tr>
<td>33</td>
<td>Swelling Pressure Test</td>
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<td>34</td>
<td>Shrinkage Limit Test</td>
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<td>35</td>
<td>Clay and Gravel Content</td>
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<td>36</td>
<td>pH/Conductivity- each</td>
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<td>250/sample</td>
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<td>No.</td>
<td>Item</td>
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<td>37</td>
<td>Organic Matter</td>
<td>500/sample (Processing charges extra)</td>
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<td>38</td>
<td>SRB Count</td>
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<td>39</td>
<td>Total Count (bacterial)</td>
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<td>Food</td>
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<td>SRB Count</td>
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<td>42</td>
<td>SRB Count</td>
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<td>Tea</td>
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<td>SRB Count</td>
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<td>Total Count (bacterial)</td>
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<td>46</td>
<td>Moisture, ash, alkalinity of ash and ash insoluble in acid</td>
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<td>47</td>
<td>SRB Count</td>
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<td>48</td>
<td>Total Count (bacterial)</td>
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<td>49</td>
<td>Sulphate of Ammonia for Nitrogen only</td>
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<td>50</td>
<td>Urea for Nitrogen only</td>
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<td>51</td>
<td>Super-Phosphate for P₂O₅</td>
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<td>Muriate of Potash for K₂O</td>
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<td>53</td>
<td>Mixed Fertilizer for NPK</td>
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<td>54</td>
<td>Zinc Sulphate</td>
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<td>55</td>
<td>Organic Matter</td>
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<td>56</td>
<td>Each Additional Element</td>
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<td>57</td>
<td>Phosphate only</td>
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<td>58</td>
<td>Sulphate of Ammonia for Nitrogen only</td>
<td>5000/sample</td>
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<td>59</td>
<td>Analysis of Natural products</td>
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<td>Soil from Brick Field</td>
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<tr>
<td>61</td>
<td>Clay, Silt and Sand Content</td>
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<tr>
<td>62</td>
<td>Atterberg’s Limit</td>
<td>350/sample²</td>
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<tr>
<td>63</td>
<td>Green Brick Mix composition</td>
<td>350/sample²</td>
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<td>64</td>
<td>(can be done only when Sl.Nos. 52 &amp; 53 are also done)</td>
<td>350/sample²</td>
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<td>65</td>
<td>Drying Shrinkage</td>
<td>600/sample</td>
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<td>66</td>
<td>Evaluation by Preparing Test Brick sample</td>
<td>10,000/sample</td>
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<td>67</td>
<td>Fine &amp; Coarse Aggregate</td>
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<td>68</td>
<td>Aggregate Impact Value (soft)</td>
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<td>69</td>
<td>Aggregate Impact Value (coarse)</td>
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<td>70</td>
<td>Aggregate Crushing Value</td>
<td>600/sample</td>
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<td>Mech. Sieve Analysis (sand)</td>
<td>650/sample²</td>
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<td>72</td>
<td>Sieve Analysis (combined)</td>
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<td>73</td>
<td>Sieve Analysis (stone)</td>
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<td>Sieve Analysis (single size)</td>
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<td>75</td>
<td>Specific Gravity</td>
<td>350/sample</td>
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<td>76</td>
<td>Unit Weight/Bulk Density of sand/stone</td>
<td>600/sample</td>
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<td>77</td>
<td>Determination of Material Finer than 75 Micron for Aggregate</td>
<td>400/sample</td>
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<td>78</td>
<td>Elongation Index</td>
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<td>79</td>
<td>Water Absorption Capacity</td>
<td>400/sample</td>
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<td>Deleterious Material</td>
<td>8500/sample</td>
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<td>Sand &amp; detrital samples</td>
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<td>82</td>
<td>Compressive/Crushing Strength</td>
<td>420/specimen</td>
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<td>83</td>
<td>Water Absorption Capacity</td>
<td>420/specimen</td>
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<td>Frequency</td>
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<tr>
<td>83</td>
<td><strong>Visual Observation and Dimension</strong></td>
<td>250/sample</td>
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<td>84</td>
<td><strong>Efflorescence</strong></td>
<td>250/specimen</td>
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<tr>
<td>85</td>
<td><strong>Cement &amp; Concrete Setting Time</strong></td>
<td>600/sample</td>
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<tr>
<td>86</td>
<td><strong>Compressive Strength 3, 7 and 28 days</strong></td>
<td>2700/sample</td>
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<tr>
<td>87</td>
<td><strong>Fineness by Specific Surface Area method</strong></td>
<td>1300/sample</td>
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<td>88</td>
<td><strong>Soundness by Le-Chatellier Expansion</strong></td>
<td>600/sample</td>
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<tr>
<td>89</td>
<td><strong>Compressive Strength of Concrete cubes</strong></td>
<td>500/test</td>
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<tr>
<td>90</td>
<td><strong>Porosity</strong></td>
<td>600/sample</td>
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<tr>
<td>91</td>
<td><strong>Bulk Density</strong></td>
<td>600/sample</td>
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<tr>
<td>92</td>
<td><strong>Specific Gravity</strong></td>
<td>600/sample</td>
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<tr>
<td>93</td>
<td><strong>Chemical Analysis of Cement for the constituents- LOI, SiO₂, Al₂O₃, Fe₂O₃, CaO, MgO</strong></td>
<td>1950/sample</td>
<td></td>
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<tr>
<td>94</td>
<td><strong>Chemical Analysis of Cement for each Additional Components like IR, SO₃, Na₂O, K₂O, Chloride, etc.</strong></td>
<td>650/sample²</td>
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<tr>
<td>95</td>
<td><strong>Concrete admixture Lignosulphates, carboxylic acids, etc.</strong></td>
<td>3000/sample</td>
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<tr>
<td>96</td>
<td><strong>Clay, Ash, Minerals like Limestone, Dolomite, Rock, Metallic minerals, Refractory Materials and Iron Ore</strong></td>
<td>1950/sample</td>
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<td>97</td>
<td><strong>Chemical Analysis for the constituents- LOI, SiO₂, Al₂O₃, Fe₂O₃, CaO, MgO</strong></td>
<td>1950/sample</td>
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<tr>
<td>98</td>
<td><strong>Phosphate</strong></td>
<td>1000/sample</td>
<td></td>
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<tr>
<td>99</td>
<td><strong>Petrographic analysis of rock sample (Thin section under transmitted light)</strong></td>
<td>8000/sample</td>
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<tr>
<td>100</td>
<td><strong>Optical Microscopy under reflected light of ores and metallic minerals</strong></td>
<td>8000/sample</td>
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<tr>
<td>101</td>
<td><strong>Timber Water Absorption</strong></td>
<td>250/sample</td>
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<tr>
<td>102</td>
<td><strong>Crude oil API Gravity</strong></td>
<td>1500/sample</td>
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<td>103</td>
<td><strong>Pour Point</strong></td>
<td>1500/sample</td>
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<td>104</td>
<td><strong>Viscosity</strong></td>
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<td>105</td>
<td><strong>Asphaltene Content</strong></td>
<td>1500/sample</td>
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<td>106</td>
<td><strong>Asphaltene+Resin Content</strong></td>
<td>3000/sample</td>
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<tr>
<td>107</td>
<td><strong>Wax Content</strong></td>
<td>1500/sample</td>
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<tr>
<td>108</td>
<td><strong>Water Content</strong></td>
<td>1500/sample</td>
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<td>109</td>
<td><strong>Distillation Characteristics</strong></td>
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<td>110</td>
<td><strong>Petroleum Products Total Acidity</strong></td>
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<td>111</td>
<td><strong>Ash Content</strong></td>
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<td>112</td>
<td><strong>Carbon Residue</strong></td>
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<tr>
<td>113</td>
<td><strong>Pour Point</strong></td>
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<tr>
<td>114</td>
<td><strong>Copper Strip Corrosion</strong></td>
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<td>115</td>
<td><strong>Distillation Characteristics</strong></td>
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<td>116</td>
<td><strong>Flash Point</strong></td>
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<tr>
<td>117</td>
<td><strong>Kinematic Viscosity</strong></td>
<td>1500/sample</td>
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<td>118</td>
<td><strong>Density</strong></td>
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<td>119</td>
<td><strong>Water Content</strong></td>
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<td>120</td>
<td><strong>Water Content by Karl Fisher Titration</strong></td>
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<td>121</td>
<td><strong>Interfacial Tension</strong></td>
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<tr>
<td>122</td>
<td><strong>Specific Resistance</strong></td>
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<td>123</td>
<td><strong>Bitumen Absolute Viscosity</strong></td>
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<td>124</td>
<td><strong>Kinematic Viscosity</strong></td>
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<td>125</td>
<td><strong>Flash Point</strong></td>
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<td>126</td>
<td><strong>Solubility in Trichloroethylene</strong></td>
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<td>127</td>
<td><strong>Penetration</strong></td>
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<td><strong>Softening Point</strong></td>
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<td>Test on RTFOT- Viscosity Ratio</td>
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<td>130</td>
<td>Test on RTFOT- Ductility after TFOT</td>
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<td>131</td>
<td><strong>Oil Field</strong></td>
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<td></td>
<td>Baryte</td>
<td>7100/sample²</td>
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<td>132</td>
<td>Sodium Formate</td>
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<td>133</td>
<td>Bentonite Clay</td>
<td>5000/sample</td>
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<tr>
<td>134</td>
<td><strong>Coal</strong></td>
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<td></td>
<td>Moisture (Oven drying)</td>
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<td>135</td>
<td>Moisture at 60% RH &amp; 40°C</td>
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<td>136</td>
<td>Free Moisture</td>
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<td>137</td>
<td>Ash</td>
<td>550/sample</td>
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<td>138</td>
<td>Full Proximate Analysis</td>
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<td>139</td>
<td>Volatile Matter</td>
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<td>140</td>
<td>Gross Calorific Value</td>
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<td>Carbon &amp; Hydrogen</td>
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<td>142</td>
<td>Total Sulphur</td>
<td>1400/sample</td>
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<tr>
<td>143</td>
<td>Nitrogen</td>
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<td>144</td>
<td>Caking Index</td>
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<td>145</td>
<td>Swelling Index</td>
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<td>146</td>
<td>LTC (GK) Coke Type</td>
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<td>147</td>
<td>LTC (GK) Assay</td>
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<td>148</td>
<td>Distribution of Sulphur</td>
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<td>149</td>
<td>Handgrove Grindability Index</td>
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<td>150</td>
<td>Ash analysis of coal/coke (major oxides)</td>
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<td>151</td>
<td>Bulk handling of coal/coke (upto1000 kg) for Sub-sampling</td>
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<td>152</td>
<td>Logging of boreholes coal core sample per metre or part</td>
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<td>153</td>
<td>Hardness and Total Dissolve Solid</td>
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<td>154</td>
<td>Ash Fusion Temperature Range</td>
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<td>155</td>
<td>Sieve analysis (combined)</td>
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<td>156</td>
<td>Ignition Temp. Test by TGA method (Thermogravimetric Analysis Method)</td>
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<td>157</td>
<td>Carbonate as CO₂ (estimated)</td>
<td>850/sample</td>
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<tr>
<td>158*</td>
<td>Particulate matter (PM₂.₅, PM₁₀ &amp; SPM) in ambient air</td>
<td>5.00 to 10.00 lakhs</td>
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<tr>
<td>159*</td>
<td>Particulate matter (PM₂.₅, PM₁₀) in stack samples</td>
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<tr>
<td>160*</td>
<td>Fuel Gas analysis (CO, CO₂, SO₂, H₂S, NOₓ, CₓHᵧ, O₂)</td>
<td>5.00 to 10.00 lakhs</td>
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<tr>
<td>161*</td>
<td>Selective Cation &amp; Anion Analysis in Aerosols, Soil and Liquid samples (per ion)</td>
<td>2500/sample</td>
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<tr>
<td>162*</td>
<td>Testing of coal (caking, non-caking, blends) in Non-recovery Pilot Coke Ovens (750 kg/batch)</td>
<td>10.00 lakhs</td>
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<tr>
<td>163*</td>
<td>Management of Acid Mine Drainage of NER coal in Pilot Scale</td>
<td>5.00 to 10.00 lakhs</td>
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*Sl.Nos.158 to 163 will be done under Consultancy mode

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<td>164</td>
<td>Grammage</td>
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<td>165</td>
<td>Tensile Index</td>
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<td>166</td>
<td>Bursting Index</td>
<td>1000/sample</td>
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<tr>
<td>167</td>
<td>Tear Index</td>
<td>1000/sample</td>
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<td>168</td>
<td>Double fold</td>
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<td>169</td>
<td>Brightness</td>
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<td>170</td>
<td>Cobb sizing</td>
<td>750/sample</td>
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<td>171</td>
<td>Moisture</td>
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<td>172</td>
<td>Wax pick</td>
<td>750/sample</td>
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<td>173</td>
<td>Opacity</td>
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<tr>
<td>174</td>
<td>pH</td>
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<td>175</td>
<td>Ash content</td>
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<tr>
<td>176</td>
<td>Fibre length</td>
<td>750/sample</td>
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<td>177</td>
<td>Thickness</td>
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<td>178</td>
<td>Mechanical pulp</td>
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<td>179</td>
<td>Quality of paper</td>
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<td>180</td>
<td>Wood, Board, Bamboo, Twines, Ropes</td>
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<td>181</td>
<td>Tensile strength</td>
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<td>182</td>
<td>MOR/Flexural Strength</td>
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<td>183</td>
<td>Density</td>
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<td>184</td>
<td>Moisture content</td>
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<td>185</td>
<td>Thickness of rope/twine</td>
<td>750/sample</td>
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<td>186</td>
<td>Solid samples &amp; highly scattering samples</td>
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<td>187</td>
<td>UV visible Spectrophotometer</td>
<td>1500/sample</td>
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<td>188</td>
<td>Diffractogram</td>
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<td>189</td>
<td>XRD + Single Phase Identification</td>
<td>1500/sample</td>
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<td>190</td>
<td>Single Crystal X-Ray Diffractometry</td>
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<td>191</td>
<td>Samples for Single Crystal X-Ray Diffractometry</td>
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<td>192</td>
<td>Preliminary investigation charge: 130/-</td>
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<td>193</td>
<td>ii. 75/- per hour for first 24 hrs.</td>
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<tr>
<td>194</td>
<td>iii. 65/- per hour for remaining hrs.</td>
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<td>195</td>
<td>iv. Minimum: 2000/- per crystal</td>
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<td>196</td>
<td>v. Processing of raw intensity data: 30/- for every 100 reflection</td>
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<td>197</td>
<td>vi. 3300/- per structure</td>
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<td>Samples for Surface Area Analysis</td>
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<td>199</td>
<td>BET Surface Area</td>
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<td>200</td>
<td>BET Surface Area and Complete Isotherm</td>
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<td>201</td>
<td>Pore Size and Pore Volume Determination</td>
<td>5000/sample</td>
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<td>202</td>
<td>Samples for Differential Analysis</td>
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<td>Differential Scanning Calorimetry- Ambient temperature to 550°C</td>
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<td>204</td>
<td>Thermal Analysis upto 1200°C (Thermogram only)</td>
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<td>Thermal Analysis above 1200°C (Additional charges Rs.200.00 if the required</td>
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<td>206</td>
<td>atmosphere is other than air)</td>
<td>4200/sample</td>
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<td>207</td>
<td>Thermogram with Interpretation</td>
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<td>208</td>
<td>Kinetic Study</td>
<td>2000/sample</td>
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<td>209</td>
<td>Samples for other Instrumental Analysis</td>
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<td>210</td>
<td>CHN Analysis</td>
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<td>211</td>
<td>LC-MS</td>
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<td>212</td>
<td>MS only</td>
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<td>213</td>
<td>GC (Basic Analysis)</td>
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<td>214</td>
<td>GC-MS</td>
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<td>215</td>
<td>AAS- each element</td>
<td>500 (element/sample) + Sample preparation: 500/- extra</td>
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<td>216</td>
<td>HPLC</td>
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<td>217</td>
<td>Single Zeta Value Measurement</td>
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<td>218</td>
<td>Zeta Potential Vs pH/additive dose (determination of isoelectric point)</td>
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<td>Test Description</td>
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<td>208</td>
<td>IR (FT-IR)</td>
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<td>209</td>
<td>UV-VIS Spectra</td>
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<td>210</td>
<td>NMR</td>
<td>550/sample for 60 MHz</td>
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<td>1000/sample for 300 MHz</td>
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<td>1500/sample for 500 MHz</td>
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<td>213</td>
<td>Gel Permeation Chromatography- in tetrahydrofuran</td>
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<td>214</td>
<td><strong>Earthquake data</strong></td>
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<td>Earthquake report (seismic parameters) for North East region &amp; adjoining region</td>
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<td>60,000.00 for Annual Seismological bulletin</td>
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<td><strong>Weather data</strong></td>
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<td>Monthly Weather Bulletin</td>
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<td>217</td>
<td><strong>Rain Fall Data</strong></td>
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**Terms & Conditions:**

1. GST, etc. extra
2. Any test not mentioned here may also be taken up on request.
3. The tests are conducted as per prevailing standard.
4. The job is taken up subject to availability of chemicals, manpower and equipment in working condition.
5. The test results are not certified to be used for legal purposes.
6. The rates are subject to change from time to time.
7. *Sl Nos.155 to 160 will be done under Consultancy mode.
8. The fees should be deposited in advance by Demand Draft drawn in favour of Director, North East Institute of Science & Technology, Jorhat payable at Jorhat or through Cash deposit to institute Cashier
9. Clients / Party may also contact for any specific tests and analysis, not included in the list.

All communications should be addressed to:

**Director, CSIR-NEIST, Jorhat 785006**

and may be sent to:

Head, RPBD
CSIR-North East Institute of Science and Technology
Jorhat-785006
E-mail: senguptaa@neist.res.in, alokananda_s@yahoo.com
Ph.:+91 0376-2370121 ext 2311 / Fax : +91 0376 2370011
Mobile-9435713921
**For technical enquiry of Sophisticated Analytical Equipments contact may also be made to:**

Dr. Pulak Jyoti Bhuyan  
Senior Principal Scientist & Group Leader, AOCG  
Email: bhuyanj@neist.res.in / pulak_jyoti@yahoo.com  
Phone: 9435352672

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<td>Dr. Lakshi Saikia</td>
<td>9957031635</td>
<td><a href="mailto:lsaikia@neist.res.in">lsaikia@neist.res.in</a> / <a href="mailto:lsaikia@gmail.com">lsaikia@gmail.com</a></td>
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<td></td>
<td></td>
<td>Dr. Biswajit Saha</td>
<td>9889703614</td>
<td><a href="mailto:bsaha@neist.res.in">bsaha@neist.res.in</a> / <a href="mailto:biochem@gmail.com">biochem@gmail.com</a></td>
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<td>Dr. Lakshi Saikia</td>
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<td>Dr. Manash Ranjan Das</td>
<td>9957178399</td>
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