

COCHIN SHIPYARD CENTRAL LABORATORY

SCHEDULE OF RATES FOR TESTING (With effect from 01.06.2020)

| Sl. No. | Description of Test | Unit | Rate, Rs. | NABL STATUS |
|----------------------|--|------|-----------|-------------|
| A | | | | |
| CHEMICAL TEST | | | | |
| 1 | COATING TEST | | | |
| | (i) Coating Thickness | Each | 270 | Yes |
| | (ii) Mass of Zinc coating | Each | 935 | Yes |
| | (iii) Uniformity of Zinc coating | Each | 935 | Yes |
| 2 | FERROUS MATERIALS | | | |
| | (i) C,Mn,Si,S,P per element | Each | 575 | Yes |
| | (ii) (C,Mn,Si,S,P) per 5 basic elements | Set | 2575 | Yes |
| | (iii) Spectro with 11 elements | Set | 4090 | Yes |
| | (iv) Cr,Ni,Mo,V,Al,Cu per element | Each | 835 | Yes |
| | (v) Others per element | Each | 835 | No |
| | (vi) Preparation of drillings/Spectral piece | Each | 330 | NA |
| 3 | FUEL TEST | | | |
| | (i) Fuel - Water,Total Sulphur,Acidity per test | Each | 345 | No |
| | (ii) Fuel - Calorific Value | Each | 690 | No |
| | (iii) Fuel - Viscosity,Flash Point,Sp. Gravity,Cloud/Pour point per test | Each | 575 | No |
| 4 | Moisture content/water absorption | Each | 360 | No |
| 5 | NON FERROUS (Al/Cu/Ni/Ag Base) MATERIALS | | | |
| | (i) Any 4 elements | Set | 3490 | No |
| | (ii) Spectro with 8 elements | Set | 4910 | No |
| | (iii) Cu,Sn,Pb,Fe,Al,Ni,Mn,Si,Zn,Ag per element | Each | 935 | No |
| | (iv) Others per element | Each | 935 | No |
| | (v) Preparation of drillings/Spectral piece | Each | 330 | NA |
| 6 | PAINT TEST | | | |
| | (i) Paint - Bend test | Each | 935 | No |
| | (ii) Paint - Solid Volume Ratio | Each | 1725 | No |
| | (iii) Paint - Viscosity,Sp.Gravity | Each | 575 | No |
| | (iv) Paint-Dry Film thickness per test | Each | 265 | No |
| | (v) Paint-Humidity,Salt spray per day, Sea water immersion per test | Each | 575 | No |
| | (vi) Paint-Pigment by weight/Vol | Each | 1230 | No |
| | (vii) Paint-Volatiles by Wt. | Each | 690 | No |
| 7 | PURITY TEST | | | |
| | (i) Purity test:Al, Cu | Each | 1635 | No |
| | (ii) Preparation of drillings/Spectral piece | Each | 330 | NA |
| 8 | WATER TEST | | | |
| | (i) Chloride content, Specific gravity,pH test | Each | 360 | No |

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| B | | | | |
| <u>MECHANICAL TEST</u> | | | | |
| 1 | BEND TEST | | | |
| | (i) Bend test up to 10mm size | Each | 460 | Yes |
| | (ii) Bend test up to 10.1 to 20mm size | Each | 475 | Yes |
| | (iii) Bend test up to 20.1 to 40mm size | Each | 510 | Yes |
| 2 | COMPRESSION TEST | | | |
| | (i) Compression-Metallic | Each | 495 | No |
| | (ii) Compression-Non Metallic | Each | 245 | No |
| 3 | Flaring test | Each | 495 | Yes |
| 4 | FLATTENING TEST | | | |
| | (i) Flattening test up to 4" dia pipe | Each | 495 | Yes |
| | (ii) Flattening test above 4" dia pipe | Each | 520 | Yes |
| 5 | Fracture-Metallic | Each | 495 | Yes |
| 6 | HARDNESS TEST | | | |
| | (i) Hardness-Barcol | Each | 375 | No |
| | (ii) Hardness-Brinell | Each | 385 | No |
| | (iii) Hardness-Rockwell | Each | 370 | Yes |
| | (iv) Hardness-Vickers | Each | 385 | Yes |
| | (v) Preparation of Hardness specimen | Each | 295 | NA |
| 7 | IMPACT TEST | | | |
| | (i) Impact at room (at 20°C) temperature (set of 5 samples) | Set | 2845 | Yes |
| | (ii) Impact at low (up to -50°C) temperature (set of 5 samples) | Set | 4620 | Yes |
| | (iii) Marking for impact test specimen | Each | 560 | NA |
| | (iv) Surface grinding for Impact specimen | Each | 295 | NA |
| | (v) Charpy U Notch cutting per sample | Each | 520 | NA |
| | (vi) Charpy V Notch cutting per sample | Each | 330 | NA |
| 8 | LOAD TEST | | | |
| | (i) Load Test of Hardware fittings | Each | 675 | No |
| | (ii) Load Test of wires, Disc insulator | Each | 640 | No |
| 9 | MACRO TEST | | | |
| | (i) Macro Examination | Each | 660 | Yes |
| | (ii) Preparation of Macro specimen | Each | 295 | NA |
| | (iii) Macro Photography - one copy | Each | 470 | NA |
| | (iv) Macro Photography - per extra copy | Each | 195 | NA |
| 10 | Mass per meter | Each | 330 | Yes |
| 11 | MICROSCOPIC TEST | | | |
| | (i) Microscopic Examination | Each | 1620 | No |
| | (ii) Preparation of Micro specimen | Each | 595 | NA |
| | (iii) Photomicrograph, per copy | Each | 470 | NA |
| 12 | Nick break test | Each | 445 | Yes |

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| 13 | REBEND TEST | | | |
| | (i) Rebend test up to 10mm size | Each | 595 | Yes |
| | (ii) Rebend test up to 10.1 to 20mm size | Each | 630 | Yes |
| | (iii) Rebend test up to 20.1 to 40mm size | Each | 670 | Yes |
| 14 | Sieve analysis | Each | 330 | No |
| 15 | TENSILE TEST | | | |
| | (i) Tensile test ≤16mm or eq. | Each | 605 | Yes |
| | (ii) Tensile test ≤16mm or eq. with 0.2% proof/extensometer | Each | 970 | Yes |
| | (iii) Tensile test > 16mm dia or eq. | Each | 780 | Yes |
| | (iv) Tensile test >16mm or eq. with 0.2% proof/extensometer | Each | 1115 | Yes |
| | (v) Tensile test with SS graph | Each | 975 | Yes |
| C | <u>NON DESTRUCTIVE TEST</u> | | | |
| 1 | DYE PENETRANT TEST | | | |
| | (i) DP per 0.5 sq.m | Each | 3325 | No |
| | (ii) DP-Weld joint per meter | Each | 3325 | No |
| 2 | MAGNETIC PARTICLE TEST | | | |
| | (i) MPI per 1000 sq.cm | Each | 1200 | No |
| | (ii) MPI-Weld joint per 50cm | Each | 900 | No |
| 3 | RADIOGRAPHY TEST | | | |
| | (i) Radiography ≤9mm thick | Each | 1045 | No |
| | (ii) Radiography 9.1-11mm thick | Each | 1125 | No |
| | (iii) Radiography 11.1-16mm thick | Each | 1220 | No |
| | (iv) Radiography 16.1-40mm thick | Each | 1405 | No |
| 4 | ULTRASONIC TEST | | | |
| | (i) UT per 1000 sq.cm | Each | 1600 | No |
| | (ii) UT-Weld joint per 50cm | Each | 2500 | No |
| | (iii) Thickness measurement | Each | 270 | No |
| 5 | Visual inspection per 60 sq.cm | Each | 190 | No |
| D | <u>ASSOCIATED SERVICES</u> | | | |
| 1 | CUTTING CHARGE | | | |
| | (i) Cutting charge up to 20mm size | Each | 205 | NA |
| | (ii) Cutting charge above 20 to 40mm size | Each | 240 | NA |
| 2 | Drawing per test specimen | Each | 205 | NA |
| 3 | Fast track service (1 working day limited to 5 samples) | Each | 2.5 times its original | NA |
| 4 | REPORTS | | | |
| | (i) Additional copy of report | Each | 165 | NA |
| | (ii) Amendment (attributed to the customer) to the report | Each | 165 | NA |

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| | (iii) Report by courier/speed post within Kerala limited to 250gm | Each | 125 | NA |
| | (iv) Report by courier/speed post outside Kerala limited to 250gm | Each | 250 | NA |
| | (v) Report by email | Each | 110 | NA |
| 5 | Service charge for work at customer's site | Day | 1925 | NA |
| 6 | Witness facility per head | Visit | 250 | NA |

(NA - Not Applicable)

Note

- 1 GST(at 18% or the prevailing rate) shall be charged extra.
Our GST Number: 32AAACC6905B1ZD and SAC code: 998346.
- 2 Test charges are to be paid in advance through debit/credit card or through NEFT to the following account.
Bank : IDBI Bank, Kochi Corporate Banking Branch
IFSC :IBKL0000385
Account No: 084103000002318 of Cochin Shipyards Ltd
- 3 Testing in presence of Surveyors, other inspection agencies or Customers who desire to witness can be arranged only on prior appointments with additional charge.
- 4 Few of the tests can be arranged at customers site for which additional service charges will be levied.

Contact Details

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Asst. Gen. Manager (Lab)

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