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| <input type="checkbox"/>            | Interim |
| <input checked="" type="checkbox"/> | Final   |

INSPECTION REPORT N°. BV/Energypac/RTCrane/35t/26<sup>th</sup> October-2021

BV Job nr: BAN.D.3084A6.021.690

|  |                           |
|--|---------------------------|
| <b>PROJECT:</b> Thorough Inspection of Rough Terrain Crane                         | Ref: BAN.D.3084A6.021.690 |
| <b>BV Client:</b> Energypac Engineering Limited                                    | P/o nr: N/A               |
| <b>Manufacturer:</b> KATO  | P/o nr: N/A               |
| <b>Inspection requested by:</b> Mr. Muhammad Arif Saberi Chowdhury, Deputy Manager |                           |

| SUPPLY / SUBJECT OF INSPECTION             | ITEM / TAG Nr   | QTY |
|--|---|-----|
| Thorough Inspection of Rough Terrain Crane | <ul style="list-style-type: none"> <li>Make: KATO</li> <li>MODEL: KR-35H-III</li> <li>Serial No. : 2835138</li> <li>Capacity: 35 Ton</li> </ul> | 01  |

**DOCUMENTS OF REFERENCE :** See continuation sheet for additional documents: ☒ Yes ☐ No

| Title                    | Reference n° | Rev. | Approved by  | Expire Date |
|--------------------------|--------------|------|--------------|-------------|
| 1. Load Chart            | Found        |      | Manufacturer |             |
| 2. Operation manual      | Found        |      |              |             |
| 3. Wire rope certificate | Not Found    |      |              |             |

**INSPECTIONS :****Inspection place & Date or Period:**

Energypac Yard, Baroepara, Savar.

Date: 26<sup>th</sup> October-2021**Stage of inspection :**

- ☐ Before manufacturing  
☐ During manufacturing  
☒ Final  
☐ Packing

**Type of inspection:**

- ☐ Pre-inspection meeting  
☐ Document and QC record review  
☒ Visual examination, checks  
☒ Witnessing tests  
☐ Manufacturing progress status  
☐ Vendor assessment  
☒ Final inspection  
☐ Packing  
 (for details see continuation sheet)

**Stamping :**

- ☒ No    ☐    ☐

**Results of inspection :** ☒ Satisfactory ☐ Unsatisfactory**Non Conformities Reports (NCR):**☐ NCR's issued during reported period : 0☐ List of outstanding NCR's : 0**Main Conclusions & Remarks:**(for details see continuation sheet)

Please check comments and maintain it properly.

**Next visit scheduled:**Before 26<sup>th</sup> October-2022



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**Description of the inspections carried out:****Introduction:**

*Energypac Engineering Limited* has signed Third Party Inspection contract with BUREAU VERITAS (Bangladesh) Private limited, Bangladesh. BV Bangladesh conducted the inspection on 26/10/2021 at Baroebara, Savar and the attendee was as under:

*Hazbullah Chowdhury, Industrial Surveyor, Bureau Veritas (Bangladesh) Private limited.*

**Details of Inspection activities carried out with respect to scope of work:**

- Thorough Examination & Load test of the crane.
- Verification of related documents.

**Findings:**

|          | DESCRIPTION                                 | CONDITION / REMARKS / PERFORMANCE TESTS   |
|----------|---|---|
| <b>0</b> | <b>GENERAL DESCRIPTION OF THE EQUIPMENT</b> |   |
| 0.0      | Description                                 | <ul style="list-style-type: none"> <li>• Make: KATO</li> <li>• MODEL: KR-35H-III</li> <li>• Serial No.: 2835138</li> <li>• Capacity: 35 Ton</li> <li>• Reg. No.: Dhaka Metro Sha -11-0314</li> <li>• MFG. Yr.: 01/2008</li> </ul> |
| <b>1</b> | <b>FIXED ACCESS</b>                         |   |
| 1.1      | Access to the cab, to the cockpit           | Found in acceptable condition.  |
| 1.2      | Other access for maintenance and testing    | Found in acceptable condition.  |
| <b>3</b> | <b>FRAMING</b>                              |   |
| 3.3      | Counterweight (nature, fixing, tie)         | Found in acceptable condition.  |
| 3.13     | Jib, boom, boom extension, turret           | Found in acceptable condition.  |
| 3.19     | Structure, bridge, guy                      | Found in acceptable condition.  |
| <b>4</b> | <b>CHASSIS</b>                              |   |
| 4.3      | Position holding outriggers road extensions | Found in acceptable condition   |
| 4.4      | Running gear (caterpillars, pneumatic...)   | Found in acceptable condition.  |
| 4.7      | Stabilizers                                 | Found in acceptable condition.  |
| 4.8      | Sleepers, rails, sub-frame                  | Not applicable  |
| <b>5</b> | <b>SOURCE OF ENERGY</b>                     |   |
| 5.1      | Power supply limitation                     | Found in acceptable condition.  |
| 5.2      | Equipment, wiring system, coiling units     | Found in acceptable condition.  |
| <b>7</b> | <b>CAB - DRIVER'S CAB</b>                   |   |
| 7.1      | Air heating/Cooling                         | Found in acceptable condition.  |
| 7.2      | Condition, fastening devices, foot rack,    | Found in acceptable condition.  |



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|           |  |   |
|-----------|--|---|
| 7.3       | Protection against falls from height   | Not applicable                                  |
| 7.8       | Working visibility (glass transparency, windshield wipers, rear-view mirror) | Found in acceptable condition.                  |
| 7.9       | Lighting   | Found in acceptable condition.                  |
| 7.12      | Seat   | Found in acceptable condition.                  |
| <b>8</b>  | <b>OPERATING AND MATERIALS HANDLING DEVICES</b>                              |   |
| 8.1       | Start / Stop   | Found in acceptable condition.                  |
| 8.2       | Lock-out of use (tagging out)  | Not applicable                                  |
| 8.3       | Other emergency stops  | Emergency stops found in operational condition. |
| 8.4       | Indicators, signalling and warning devices                                   | Found in acceptable condition                   |
| 8.5       | Identification of control devices  | Found in acceptable condition.                  |
| 8.6       | Automatic return to neutral point  | Found in acceptable condition.                  |
| 8.7       | Warning signals  | Found in acceptable condition.                  |
| 8.9       | Protecting devices against unwilling or non-voluntary operations             | Found in operational condition.                 |
| <b>9</b>  | <b>MAIN RUNNERS, GUYS, DRUMS, PULLEYS, FASTENING DEVICES</b>                 |   |
| 9.1       | Fasteners, clips, straps, clamps   | Found in acceptable condition.                  |
| 9.2       | Fastening devices  | Found in acceptable condition.                  |
| 9.4       | Main runners and lines, guys (Cables or chains)                              | Found in acceptable condition.                  |
| 9.5       | Drums, pulleys, rope blocks, drive pinions, windlasses                       | Found in acceptable condition.                  |
| <b>10</b> | <b>MECANISMS</b>   |   |
| 10.1      | Speed-limiting device (no runaway)   | Found in acceptable condition.                  |
| 10.3      | Locking device when out of order   | Found in acceptable condition.                  |
| 10.5      | Hoist brake  | Found in acceptable condition.                  |
| 10.6      | Power and gear transmission system   | Found in acceptable condition.                  |
| 10.8      | Drive components, couplings, connections                                     | Found in acceptable condition.                  |
| 10.9      | Protection of the mobile parts of the power transmission                     | Found in acceptable condition.                  |
| 10.12     | Parking brake, travel-brake  | Found in acceptable condition.                  |
| 10.13     | Slewing brake  | Found in acceptable condition.                  |
| <b>11</b> | <b>SAFETY DEVICES</b>  |   |
| 11.1      | Limit stops relating to lifting motions                                      | Found in acceptable condition.                  |
| 11.2      | Any other limit or travel stops - Limit switch actuator                      | Found in acceptable condition.                  |
| 11.3      | Load limiter   | Found in acceptable condition.                  |



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|-----------|---|------------------|
| 11.6      | Locking device of mobile units during driving process on track/road | Functional       |
| 11.17     | Anemometer  | N/A              |
| 11.19     | Inclination limiter - Indicator/sensor of the inclination           | Functional       |
| <b>14</b> | <b>PROOF LOAD TESTS</b>   |                  |
| 14.1      | Static proof test   | Found acceptable |
| 14.2      | Dynamic proof test  | Found acceptable |
| <b>16</b> | <b>OTHERS</b>   |                  |
| 16.1      | Capacity display  | Found acceptable |
| 16.2      | Safety and use instructions   | Found acceptable |

*The inspection results are valid at time and place of inspection. The above inspection has been carried out according to Bureau Veritas general conditions of service, the issuance of this inspection report does not release the contractual parties from their own responsibilities and the fulfilment of their obligations.*

ANNEXES ☐ Yes (Total number of pages: 0) ☒ No**Load Test Detail:**

| <b>Description of Test</b>   | <b>Boom Length (metre)</b> | <b>Actual Radius (metre)</b> | <b>Test Load (Ton)</b> | <b>SWL (Ton)</b> |
|--|----------------------------|------------------------------|------------------------|------------------|
| Main Hook block on 8 Parts of Line at the time of Inspection. (Outriggers fully extended ) |                            |                              |                        |                  |
| <b>110% SWL Test with main hook.</b>   | 25.5                       | 9                            | 12.10                  | 11               |
| <b>110% SWL Test with Auxiliary hook.</b>  | 21.8                       | 19                           | 2.90                   | 2.65             |

**Comment:**

- Maintenance needs to be followed as per standard and guideline of the manufacturer and needs to be recorded.

**Inspected by:**

Name: Hazbullah Chowdhury

Signature:

Date of issue: 27<sup>th</sup> October-2021**Inspection centre:** BV DhakaDistribution: ☒ Energypac ☒ BV Bangladesh**Checked by:**

Name: Walid Hossain

Signature:





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### Photographs

