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Applicant Company Name: Nebra Ltd

Applicant Company Address: Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells,

East Sussex, TN3 9BJ

The following sample(s) was/were submitted and identified on behalf of the client as:

Nebra Indoor LoRa Gateway ROCK Pi 4 Version / Sample Name Nebra Indoor Helium Hotspot ROCK Pi 4 Version

NEBHNT-HHRK4-868

Sample Receiving Date : February 25, 2022

Testing Period From February 25, 2022 to March 03, 2022

Please refer to next page(s). Results

Summary of Test Results:

Model No.

TEST REQUEST CONCLUSION

WEEE Directive 2012/19/EU

Shenzhen Deesev Testing International Corp

Approved by:

lab manager

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| General Information | | | | | | |
|---------------------------------------|---|--|--|--|--|--|
| Country of Origin | China | | | | | |
| Product Name | Nebra Indoor LoRa Gateway ROCK Pi 4 Version / Nebra Indoor Helium Hotspot ROCK Pi 4 Version | | | | | |
| Product Model | NEBHNT-HHRK4-868 | | | | | |
| Product weight | 522.73g | | | | | |
| Product size | 9.6cm*7.2cm*5.2cm | | | | | |
| Category under the WEEE directive | Fifth category (Small equipment) | | | | | |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 20 20 No 20 No 27 No 27 20 20 No 20 No 27 | | | | | |

2.result of reuse /recycling/recovery assessment

| ord ord ord | | (T) (T) (C | | |
|--|---------------------|--------------|--|--|
| Reuse/Recycling/Recovery | Reuse/Recycling (%) | Recovery (%) | | |
| Reuse/Recycling/Recovery Targets under the 2012/19/EU WEEE Directive | 55 | 75 | | |
| Result of Assessment | 87.40 | 87.40 | | |
| WEEE requirement compliance | ОК | ОК | | |
| (DTI) (DTI) (DTI) (DTI) | (DTI) (DTI) | (010) (010) | | |

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3.Appearance of the product



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深圳市德泽威技术检测有限公司 Tel: +86-755-32936716 E-mail: DTI@deesev.cn

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4. Disassembly Tree



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5. Disassembly Procedure

The disassembly procedure taken here is in accordance with the treatment requirements under the Annex II of the WEEE Directive. In addition, to consider economic and efficiency factors, manual operation and disassembly tools have been applied to separate the components and materials from this product in order to simulate the scenario at the treatment facility, and to achieve the objective that the separated components and materials can be reused, recycled and recovered.

5.1 Connection technique: For this product, the connection technology including as following:

Snap: 2 Glue: 11 Screw: 15

5.2 Disassembly tool: The disassembly tools used for this product show as following:

| | Cross screwdriver |
|------------------|-------------------|
| Discoonthy Tool | Spanner |
| Disassembly Tool | Pliers |
| ori ori | Scissors |

| 20 minutes | | | | |
|--------------|------|--------|--------|-------|
| OT THE OTHER | | | | |
| | **** | ****** | ****** | ***** |

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6. Material and Recycling Information

According to the information declared by the applicant company, the material and recycling information for this product is described in the following table. The reuse, recycling and recovery assessment for this product is based upon economic and efficiency considerations, and the waste treatment technologies and equipment that are most frequently available to the market.

| Photo No. | Component / Material Composition | Weight (g) | Percent Weight (%) | Reuse/ Recycling (%) | Energy Recovery (%) | Recovery (%) |
|-------------------|-------------------------------------|------------|--------------------------|----------------------------|---------------------------|-----------------|
| B1 DTII | Metal parts | 257.42 | 49.25 | 44.18 | <u> </u> | 44.18 |
| B2 Nonmetal parts | | 104.03 | 19.90 | 18.38 | (DII) | 18.38 18.59 |
| B3 | Вз РСВ | | PCB 121.80 2 | 23.30 18.59 | | |
| B4 Wire | | 39.48 7.55 | | 6.25 | 6.25 | |
| To | 522.73 | 100 | 87.40 | (01) | 87.40 | |

Note:

Due to their insignificant weight and the difficulty of their separation in a manual operation, solder, paint and printing materials are not included in this assessment. Plastic containing brominated flame retardants is not assessed in the list.

Decision rule: According to DTI-CX-39-2020 《Decision rule for conformity of the test results》

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7. Recycling and Recovery Rate Calculation

Reuse Recycling& Recovery Rate using in the report are calculated as following formulas:

| D | ofil | OTI | Reuse & Re | ecycling Wei | ght | | |
|------------------------------|--------------|----------------------|----------------------|--------------|--------------|----------|--|
| Reuse & Recycling Rate = (%) | | Product Total Weight | | | | | |
| Recovery Rate = (%) | | e & Recycling | D (E | | | | |
| | | | Product Total Weight | | | | |
| | | | | | | | |
| Total v | weigh of the | e product is | s including the | e main produ | ct and acces | ssories. | |
| | | | (OTI) *: | ******* | ****** | ***** | |

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8. ANNEX II of WEEE Directive

Selective treatment for materials and components of waste electrical and electronic equipment:

- Polychlorinated biphenyls (PCB) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT) (1),
- Mercury containing components, such as switches or backlighting lamps,
- Batteries
- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres,
- Toner cartridges, liquid and pasty, as well as colour toner,
- Plastic containing brominated flame retardants,
- Asbestos waste and components which contain asbestos,
- Cathode ray tubes,
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC),

Gas discharge lamps,

- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps,
- External electric cables,
- Components containing refractory ceramic fibres as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress Council Directive 67/548/EEC relating to the classification, packaging and labelling of dangerous substances ,
- Components containing radioactive substances with the exception of components that are below the exemption
 thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic
 safety standards for the protection of the health of workers and the general public against the dangers arising
 from ionising radiation ,
- Electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume)

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9. Recommendations for WEEE Directive Compliance

- In order to avoid the product not meeting the reuse/recycling/recovery targets regulated under the WEEE Directive and the regulations of EU countries, the applicant company should, when selecting material and components design, consider they can be easy to reuse and recycle. This consideration will lessen the impact of the required international environmental directives and also improve the product's competitiveness.
- It is recommended that the applicant company, when designing new product, especially where components and materials have a large weight ratio, should consider using recyclable materials in order to increase the product's reuse/recycling/recover ratio.
- The product should apply to the RoHS Directive (Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronics equipment). The hazardous substance specification in the Directive should be controlled in the homogenous material of this product.
- If a product has changed its product design, or materials or components employed, then the product should be reassessed and retested in accordance with the WEEE Directive for reuse/recycling/recovery assessment and RoHS for restricted/banned substances requirements.

*** End of Report ***

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E-mail: DTI@deesev.cn

Shenzhen Deesev Testing International Corp.