Test Report -Products



Report No.: 170387954a 001 Page 1 of 15

Client: ZEROERR CONTROL CO., LTD.

Contact Information: 4F, Bldg 1, Unit 4, Dejin Industrial Park, 40 Fuyuan 1st Road, Fuhai St,

Bao'an Shenzhen, Guangdong, P. R. China

Test item(s): 75 materials

Identification/ EROB ROTARY ACTUATOR

Model No(s): eRob 70F, eRob 70I, eRob 80I, eRob 90I, eRob 110I, eRob 142I, eRob

170I, eRob 70T, eRob 80T, eRob 90T, eRob 110T, eRob 142T,

eRob170T

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2023-03-27, 2023-03-31, 2023-04-10, 2023-04-18, 2023-04-28

Testing Period: 2023-03-28 - 2023-05-15

Place of testing: Chemical laboratory Guangzhou

Test Specification: Test result:

 Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) PASS and Polybrominated diphenyl ethers (PBDE), ROHS Phthalates (BBP, DBP,

DEHP, DIBP)

According to RoHS(recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment

Other information:

According to customer's requirement, only the appointed materials have been tested.

Country of Origin: China

The report 170387954a 001 supersedes report 170338504a 002.

For and on behalf of

2024-09-05

TÜV Rheinland (Guangdong) Ltd.

Elaine Zhang / Assistant Manager

Elaine zhang

Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

TÜV Rheinland (Guangdong) Ltd.· No.199 Kezhu Road, Guangzhou Science City, Guangzhou, 510663, P.R. China Tel.: (86) 20 2839 1888 · Fax: (86) 20 2839 1999 · Mail: service-gc@tuv.com · Web: www.tuv.com



Test Report No.: 170387954a 001 Page 2 of 15

Material List:

Item: EROB ROTARY ACTUATOR

eRob 70F, eRob 70I, eRob 80I, eRob 90I, eRob 110I, eRob 142I, eRob 170I, eRob 70T,

eRob 80T, eRob 90T, eRob 110T, eRob 142T, eRob170T

Material No.	Material	Color	Location
A001	Metal	silvery	Refer to photo
A002	Glue	pink	Refer to photo
A003	Plastic	yellow	Refer to photo
A004	Metal	golden	Refer to photo
A005	Plastic	beige	Refer to photo
A006	Plastic	black	Refer to photo
A007	Plastic + printing + adhesive	white/ black	Refer to photo
A008	Electronic components	black	Refer to photo
A009	Electronic components	dark grey	Refer to photo
A010	Glue	white	Refer to photo
A011	Electronic components	black	Refer to photo
A012	Electronic components	black	Refer to photo
A013	Electronic components	black	Refer to photo
A014	Electronic components	brown	Refer to photo
A015	Metal	silvery	Refer to photo
A016	Electronic components	black	Refer to photo
A017	Electronic components	dark grey	Refer to photo
A018	Electronic components	dark grey	Refer to photo
A019	Electronic components	black	Refer to photo
A020	Electronic components	black	Refer to photo
A021-1	Solder	silvery	Refer to photo(retest of A021)
A022	Electronic components	black	Refer to photo
A023	Electronic components	black	Refer to photo
A024	Electronic components	black	Refer to photo
A025	Electronic components	black	Refer to photo
A026	PCB board	black	Refer to photo
A027	Electronic components	black	Refer to photo



Page 3 of 15

A028	Metal + plating	silvery/ grey	Refer to photo
A029	Plastic	black	Refer to photo
A030	Metal	silvery	Refer to photo
A031	Metal	silvery	Refer to photo
A032	Metal + plating	silvery/ grey	Refer to photo
A033	Metal + plating	silvery/ black	Refer to photo
A034	Metal	silvery	Refer to photo
A035	Metal + plating	silvery/ black	Refer to photo
A036	Metal + plating	silvery/ black	Refer to photo
A037	Metal	silvery	Refer to photo
A038	Metal	silvery	Refer to photo
A039-1	Plastic	red	Refer to photo(retest of A039)
A040	Plastic	grey	Refer to photo
A041	Plastic + printing	black/ white	Refer to photo
A042	Metal	silvery	Refer to photo
A043	Plastic	black	Refer to photo
A044	Plastic	blue	Refer to photo
A045	Plastic	red	Refer to photo
A046-1	Plastic	black	Refer to photo(retest of A046)
A047	Metal	silvery	Refer to photo
A048	Oil	transparent	Refer to photo
A049	Metal	silvery	Refer to photo
A050	Magnet	black	Refer to photo
A051	Glue	black	Refer to photo
A052	Metal + plating	silvery/ grey	Refer to photo
A053	Metal + plating	silvery/ black	Refer to photo
A054	Metal	silvery	Refer to photo
A055	Metal	silvery	Refer to photo
A056	Oil	yellow	Refer to photo
A057	Plastic	dark brown	Refer to photo
A058	Metal + plating	silvery/ grey	Refer to photo
A059	Metal + plating	silvery/ grey	Refer to photo



Page 4 of 15

A060	Metal	coppery	Refer to photo
A061	Plastic	brown	Refer to photo
A062	PCB board	dark green	Refer to photo
A063	Solder	silvery	Refer to photo
A064	Magnet	silvery	Photo1
A065	Metal	silvery	Photo1
A066	Plastic + adhesive	light yellow	Photo1
A067	Plastic	brown	Photo2
A068	Plastic	pink	Photo2
A069	Plastic	blue	Photo2
A070	Metal	silvery	Photo2
A071	Metal	coppery	Photo4
A072	Coated textile	black	Photo3
A073	Metal	silvery	Photo3
A074	Plastic	black	Photo5
A075	Plastic	black	Photo5



Page 5 of 15

1.Screening Test by XRF spectroscopy

Cadmium, Lead, Mercury, Chromium, Bromine -- With reference to IEC 62321-3-1:2013 Test Method:

Test Result:

Material No.	Cd	Cr	Pb	Hg	Br
A001	BL	BL	BL	BL	n.a.
A002	BL	BL	BL	BL	d.(*1)
A003	BL	BL	BL	BL	d.(*1)
A004	BL	BL	d.(*1)	BL	n.a.
A005	BL	BL	BL	BL	d.(*1)
A006	BL	BL	BL	BL	d.(*1)
A007	BL	BL	BL	BL	BL
A008	BL	BL	BL	BL	BL
A009	BL	d.(*1)	BL	BL	BL
A010	BL	BL	BL	BL	d.(*1)
A011	BL	BL	BL	BL	BL
A012	BL	BL	BL	BL	d.(*1)
A013	BL	BL	BL	BL	BL
A014	BL	BL	BL	BL	BL
A015	BL	BL	d.(*1)	BL	n.a.
A016	BL	BL	BL	BL	BL
A017	BL	d.(*1)	BL	BL	BL
A018	BL	d.(*1)	BL	BL	BL
A019	BL	BL	BL	BL	BL
A020	BL	BL	BL	BL	BL
A021-1	BL	BL	BL	BL	n.a.
A022	BL	BL	BL	BL	BL
A023	BL	BL	BL	BL	BL
A024	BL	BL	BL	BL	BL
A025	BL	BL	BL	BL	BL
A026	BL	BL	BL	BL	d.(*1)
A027	BL	BL	BL	BL	BL
A028	BL	BL	BL	BL	n.a.
A029	BL	BL	BL	BL	BL
A030	BL	d.(*1)	BL	BL	n.a.
A031	BL	d.(*1)	BL	BL	n.a.
A032	BL	d.(*1)	BL	BL	n.a.
A033	BL	d.(*1)	BL	BL	n.a.
A034	BL	BL	BL	BL	n.a.
A035	BL	d.(*1)	BL	BL	n.a.
A036	BL	BL	BL	BL	n.a.
A037	BL	d.(*1)	BL	BL	n.a.



Page 6 of 15

A038	BL	d.(*1)	BL	BL	n.a.
A039-1	BL	BL	BL	BL	BL
A040	BL	BL	BL	BL	BL
A041	BL	BL	BL	BL	BL
A042	BL	BL	BL	BL	
A043	BL	BL	BL	BL	n.a. BL
			BL		
A044	BL	BL		BL	BL
A045	BL	BL	BL	BL	BL
A046-1	BL	BL -1 (*4)	BL	BL	BL
A047	BL	d.(*1)	BL	BL	n.a.
A048	BL	BL	BL	BL	BL
A049	BL	BL	BL	BL	n.a.
A050	BL	BL	BL	BL	n.a.
A051	BL	BL	BL	BL	BL
A052	BL	d.(*1)	BL	BL	n.a.
A053	BL	BL	BL	BL	n.a.
A054	BL	BL	BL	BL	n.a.
A055	BL	d.(*1)	BL	BL	n.a.
A056	BL	BL	BL	BL	BL
A057	BL	BL	BL	BL	BL
A058	BL	BL	BL	BL	n.a.
A059	BL	d.(*1)	BL	BL	n.a.
A060	BL	BL	BL	BL	n.a.
A061	BL	BL	BL	BL	d.(*1)
A062	BL	BL	BL	BL	d.(*1)
A063	BL	BL	BL	BL	n.a.
A064	BL	BL	BL	BL	n.a.
A065	BL	d.(*1)	BL	BL	n.a.
A066	BL	BL	BL	BL	BL
A067	BL	BL	BL	BL	BL
A068	BL	BL	BL	BL	BL
A069	BL	BL	BL	BL	BL
A070	BL	BL	BL	BL	n.a.
A071	BL	BL	BL	BL	n.a.
A072	BL	BL	BL	BL	BL
A073	BL	d.(*1)	BL	BL	n.a.
A074	BL	BL	BL	BL	BL
A075	BL	BL	BL	BL	BL



Test Report No.: 170387954a 001 Page 7 of 15

Abbreviation: Pb = Lead

Cadmium Cd = Ha Mercury = Chromium Cr = Bromine Br Not applicable n.a. Below limit BL OL Over limit Detected d.

Remark:

- (*1) The screening result was detected in the inconclusive region or over limits, thus the further wet chemistry tests are suggested.
- (*2) Component(s)/ materials(s) with an area of less than 2 mm x 2 mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason. For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material. Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.
 - All other materials will be sampled and tested at one test point representatively.
- (*3) The Chromium (Cr) and Bromine (Br) in the above result table indicate the total chromium and total bromine by means of XRF screening. PBBs, or PBDEs content shall be further confirmed with reference to IEC 62321-6:2015. Chromium (VI) shall be further confirmed with reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017.

XRF Screening limits for different matrices :

	Concentration (%)					
Material	Material Cd		Cr Pb		Br	
Polymeric	BL≤0.006 <x<0.014≤ OL</x<0.014≤ 	BL≤0.064 <x< th=""><th>BL≤0.067<x<0.133≤ OL</x<0.133≤ </th><th>BL≤0.066<x< 0.134≤OL</x< </th><th>BL≤0.029<x< th=""></x<></th></x<>	BL≤0.067 <x<0.133≤ OL</x<0.133≤ 	BL≤0.066 <x< 0.134≤OL</x< 	BL≤0.029 <x< th=""></x<>	
Metallic	BL≤0.006 <x<0.014≤ OL</x<0.014≤ 	BL≤0.064 <x< th=""><th>BL≤0.067<x<0.133≤ OL</x<0.133≤ </th><th>BL≤0.066<x< 0.134≤OL</x< </th><th>n.a.</th></x<>	BL≤0.067 <x<0.133≤ OL</x<0.133≤ 	BL≤0.066 <x< 0.134≤OL</x< 	n.a.	
Composite materials	BL≤0.004 <x<0.016≤ OL</x<0.016≤ 	BL≤0.044 <x< th=""><th>BL≤0.047<x<0.153≤ OL</x<0.153≤ </th><th>BL≤0.046<x< 0.154≤OL</x< </th><th>BL≤0.024<x< th=""></x<></th></x<>	BL≤0.047 <x<0.153≤ OL</x<0.153≤ 	BL≤0.046 <x< 0.154≤OL</x< 	BL≤0.024 <x< th=""></x<>	

Remark: The symbol "X" marks the region where further investigation is necessary.



Page 8 of 15

Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Test Method: Total C

Total Cadmium, Lead, Mercury, Chromium

- Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)

- For Metal material - Ref. to IEC 62321-7-1:2015

- For Polymer, Electronic material or others materials - Ref. to IEC 62321-7-2:2017

PBBs, PBDEs - Ref. to IEC 62321-6:2015

Test Result:

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

(%)						
Material No.	Cd	Cr^	Pb	Hg	PBBs	PBDEs
Wateriai NO.			RL ((%)		
	0.001	0.001	0.001	0.001	0.01	0.01
A002	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A003	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A004	n.a.	n.a.	3.70(*3)	n.a.	n.a.	n.a.
A005	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A006	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A010	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A012	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A015	n.a.	n.a.	2.62(*3)	n.a.	n.a.	n.a.
A026	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A061	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A062	n.a.	n.a.	n.a.	n.a.	< RL	< RL

Material No.	Chromium VI content for metal materials (µg/cm²) (*1) RL: 0.10 µg/cm²
A030	Negative
A031	Negative
A032	Negative
A033	Negative
A035	Negative
A037	Negative
A038	Negative
A047	Negative



Page 9 of 15

A052	Negative
A055	Negative
A059	Negative
A065	Negative
A073	Negative

Material No.	Chromium VI content for other materials (%) RL: 0.01%
A009	< RL
A017	< RL
A018	< RL

Abbreviation: Pb = Lead

Cd = Cadmium
Hg = Mercury
Cr = Chromium
Cr (VI) = Chromium (VI)

PBBs = Total Polybrominated Biphenyls
PBDEs = Total Polybrominated Diphenyl Ethers

< = Less thanRL = Reporting Limitn.a. = Not Applicable

^ = The total Chromium have been determined

% = Percentage

Remark:

(*1) The Chromium (VI) content of metal sample in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.

	Chromium (VI) concentration	Qualitative result
Negative	<0.1µg/cm²	The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating
Inconclusive	nconclusive ≥0.1µg/cm² and ≤0.13 µg/cm²	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination.
Positive	>0.13 μg/cm²	The sample is positive (+ve) for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- (*2) The Chromium (VI) content of plastic sample or electronic sample have been confirmed with reference to IEC 62321-7-2:2017
- (*3) The Chromium (VI) content of leather sample have been confirmed with reference to EN ISO 17075-1:2017.
- (*3) According to Annex of 2011/65/EU, "Copper alloy containing up to 4% lead by weight" is exempt from the requirements of Article 4(1). This exemption applies to testing sample No. A004, A015.



Test Report No.: 170387954a 001 Page 10 of 15

BBP, DBP, DEHP, DIBP content

Test Method: IEC 62321-8:2017

Test Result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

Test No.	Material No.	(%)				
		BBP	DBP	DEHP	DIBP	
		RL (%)				
		0.005	0.005	0.005	0.005	
T001	A002	< RL	< RL	< RL	< RL	
T002	A003 + A026	< RL	< RL	< RL	< RL	
T003	A005 + A006	< RL	< RL	< RL	< RL	
T004	A010	< RL	< RL	< RL	< RL	
T005	A029	< RL	< RL	< RL	< RL	
T006	A039-1	< RL	< RL	< RL	< RL	
T007	A040	< RL	< RL	< RL	< RL	
T008	A041	< RL	< RL	< RL	< RL	
T009	A043	< RL	< RL	< RL	< RL	
T010	A044	< RL	< RL	< RL	< RL	
T011	A045	< RL	< RL	< RL	< RL	
T012	A046-1	< RL	< RL	< RL	< RL	
T013	A048	< RL	< RL	< RL	< RL	
T014	A051	< RL	< RL	< RL	< RL	
T015	A056	< RL	< RL	< RL	0.054	
T016	A057 + A061 + A062	< RL	< RL	< RL	0.017	
T017	A067 + A068 + A069 + A074 + A075	< RL	< RL	< RL	< RL	
T018	A066 + A072	< RL	0.005	< RL	< RL	

Abbreviation: BBP= Benzylbutyl phthalate

DBP= Dibutyl phthalate

DEHP= Bis(2-ethylhexyl) phthalate

DIBP= Diisobutyl phthalate

< = less than

RL = Reporting Limit %= percentage



Test Report No.: 170387954a 001 Page 11 of 15

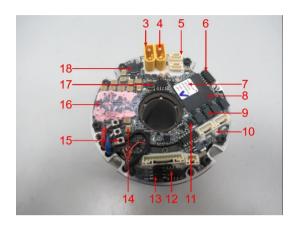
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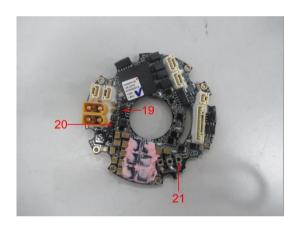
* The maximum permissible limit is required from the amendment (EU) 2015/863 of RoHS Directive 2011/65/EU.



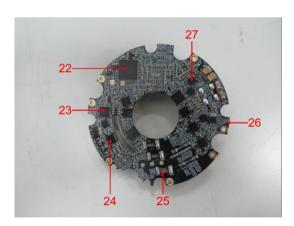
Page 12 of 15







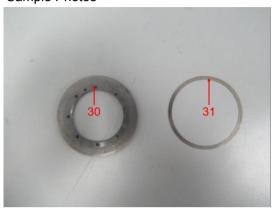


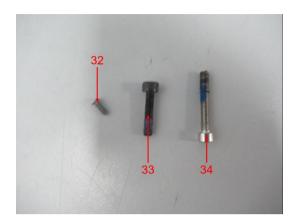


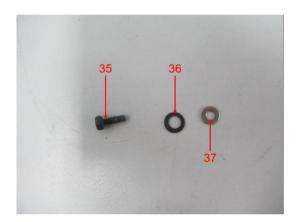


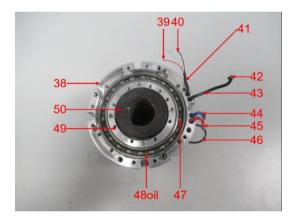


Page 13 of 15













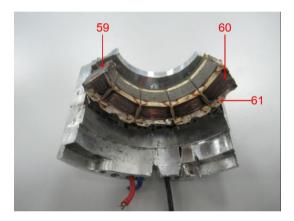


Page 14 of 15







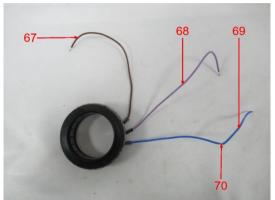




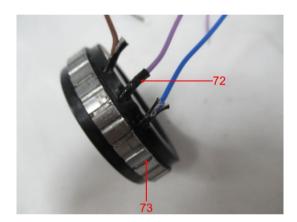


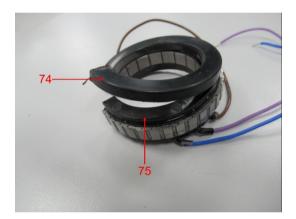


Page 15 of 15











Product



General Terms and Conditions of Business of TÜV Rheinland in Greater China

- Scope
 These General Terms and Conditions of Business of TUV Rheinland in Greater China ("GTCB") is made between the client and one or more member entities of TUV Rheinland in Greater China is applicable as the case may be ("I'UV Rheinland"). The Greater China hereof refers to the regions within the territories of China. The Client hereof includes:

 a natural person capable to form laggly binding contracts under the applicable laws who concludes the contract not for the purpose of a daily use.

 The following terms and conditions of proceedings of the contract under the applicable law. The following terms and conditions of provisions the vision and conditions of the contract under the applicable two. The following terms and conditions of the client daily strip calcillary services and similar services as well as an activate services information, deliveries and similar services as well as an activate services information, deliveries and similar services as well as an activate services and services and services are services as well as an activate services and services and services are services as well as an activate services and services and services are services as well as an activate services and services and services and services are services as well as an activate services and services are activated to the contract even if TUV Rheinland does not explainly object to them. In the context of an organizing business relationship with the client, this CTGB shall also apply to future contracts with the client without TUV Rheinland having to refer to them separately in each individual case.
- (ii)
- 13

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

Coming into effect and duration of contracts

- Coming into effect and duration of contracts

 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV.

 Rhenland or a separate contractual document being signed by both contracting parties, or upon
 the works requested by the client being carried out by TÜV. Rheinland if the ident instructs TÜV.

 Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, erfeitled to accept the order by giving written notice of such acceptance (including notice sent via effectronic means) or by performing the requested services.

 The contract term starts upon the coming into effect of the contract in sociodance with article 3.1 and shall continue for the term agreed in the contract.

 If the contract provides for an existention of the coloration term, the contract term will be extended the contract in the contract term.
- 3.3

- The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. It no such separate service scope of TÜV Rheinland ostaits, hen the written confirmation of order by TÜV Rheinland ostaits, hen the written confirmation of order by TÜV Rheinland ostaits, hen the written confirmation of order by TÜV Rheinland ostaits, hen the service description (e.g., checking the correctness and functionality of partie, products, proprocesses, installations, organizations not Island in the service description, as well as the intended use and application of such) are not owed. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part product, process or plant, unless this is expressly stated in the order.
- 4.3
- The agreed services shall be performed in compliance with the regulature is in a contract is entered into.

 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unbest scherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

 On execution of the Nette shall be no simultaneous assumption of any guarantee of the On execution of the willy) and working order of either tested or exemined parts nor of the installation as a whole and its upstream and/or downstream processes, organisations, use and application in accordance with regulations, nor of the systems on which the installation is based in particular. TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined, nor for the use and application in accordance with regulations, unless these questions are expressly covered by the contract.

- in particular, TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined, not for their use and application in accordance with requisitions, unless these questions are expressly covered by the contract.

 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, responsible to the safety programmes or safety regulations on which the inspections are based, responsible to the safety programmes or safety regulations on which the inspections are based, responsible to the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional renumeration for resulting additional expenses.

 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the contract are services to be provided by TÜV Rheinland under the contract are agreed exclusively with the contract and the safety of t

- 5.5
- Performance periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding fleeing confirmed as binding by TUV Rehination to writing, shall not commence until the Archies 1.1 and 5.2 also apply, even whost or spread to the periods shall not commence until the Archies 5.1 and 5.2 also apply, even whost or express approval by the client, to all extensions of agreed periods/dates of performance not caused by TUV Rehelman. TUV Rehination and or responsible for a delay in performance, in particular if the client has not input to the periods of t
- to resume performance.

 The client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, it is the client's obliged to comply with legal, afficially prescribed and/or by the accreditor prescribed deadlines. It is the client's responsibility to agree on performance dates with TUV Rheinland, which enable the client to comply with the legal and/or officially prescribed deadlines. TUV Rheinland assumes no responsibility in this respect unless TUV Rheinland expressly agreed in writing aspectically stating that enumpting the deadlines is the contractual obligation of TUV.

- The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to $T\bar{U}V$ Rheinland. 6.1
- Design documents, supplies, suxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and varrants that:

- b) the product, service or management system to be certified complies with applicable laws and regulations; and
- it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.
- If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/centificates
- The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

- 7.1
- If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is sagreed in writing, invoicing shall be made in accordance with the price list of TUV Phenianda valid at the time of performance. Unless otherwise agreed, work shall be invoiced according to the progress of the work. If the execution of an order actuation over more than one month and the value of the contract or the agreed fixed price exceeds £2,500.00 or equivalent value in local currency. TUV Rheinland may demand payments on account or in installments.

- All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted. Payments shall be made to the basis, account of TUV Rhenland as indicated on the invoice, stating the invoice and client numbers. Stating the invoice and client numbers. Stating the invoice and client numbers. Stating the invoice and client numbers of the properties of the properties of the properties of the properties of the publicy amounted by a reputable commercial bank in the country where TUV Rheinland is located. At the same time, TUV Rheinland reserves the right to claim further demanges.
- applicable short term loan interest fave puocus princeres up a reposeer connected and the country where TUV Rheisland is located. At the same time, TUV Rheinland reserves the right the country where the term of the invoice despite being granted a reasonable grace period. TUV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract. The provisions set forth in article & I shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the claimst assets or contract to the contract of the contract of the contract of payment, commencement of insolvency proceedings against the claimst assets or contract of the contract of payment, commencement of insolvency proceedings against the claimst assets or contract on the contract of the contract
- ets.
 ections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of epit of the invoice.

TÜV Rheinland shall be entitled to demand appropriate advance payments. TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have heroteader. In this case, TÜV Rheinland shall notify the client in writing of the upper purchase to the propriate payment of notice payment of the propriate payment payment of the propriate payment pay

Only legally established and undisputed claims may be offset against claims by TÜV Rheinland. TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client including but not limited to setoff against any less gaid by the client under any contracts agreement and or orders/quotations reached with TÜV Rheinland.

- 9.1
- Any part of the work result ordered which is complete in itself may be presented by TÜV Rheniand for acceptance as an instalment. The client shall be obliged to accept it immediately. If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client retures acceptance within this period stating at least one unfundental breach of contract by TÜV.
- Rheinland.

 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV
 Rheinland. 9.3
- Rheinland. If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place. During the Follow-Audit stage, if the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdraw (e.g. performance of surveillance audits), or if the client certification promoted the procedure of surveillance audits), or if the client certification shrinked to be withdrawn (e.g. performance of surveillance audits), or if the client certification is therefore to be withdrawn (e.g. performance of surveillance audits), or if the crief certification is sufficient to the contraction of the crief certification of the certification of the crief certification of the crief certification of the crief certification of the crief certification of the
- Rhehland has incurred no damage whatsoever or usy a wannounce, ..., above lump sum, ar as the client has undertaken in the contract to accept services, TUV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TUV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

- dentiality

 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, dais, test results, sports, and secrets, documents, images, drawings, expertise, information, dais, test results, sports, and marketing techniques and materials, tangible or intangible, that are supplied, transferred or indevise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic format. Confidential information is expressly not the data and know-how collected, complete or otherwise disclosined by TD (Febrahard flore)-personal confidential information is expressly not the data and know-how collected, complete or otherwise disclosined by TD (Febrahard flore)-personal confidential information is expressly not the data and know-how collected, complete or otherwise disclosined by TD (Febrahard flore)-personal confidential information is disclosed party in the provision of services 10.2. The disclosing party shall mark all confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidential information to make the client child and any confidential information to TDV Rheinland. Instead, the client shall avoid using any third party platform and/or system (e.g. Wechat, etc. Unauthorized by TDV Rheinland, bread of the client shall avoid unique grave the day transmits or otherwise discloses to the client shall avoid unique grave through the confidential information to TDV Rheinland. Instead, Landard and which is created during performance of work by TDV Rheinland. Instead, Landard shall be appropriately information and the disclosing party transmits or otherwise discloses to the caused by the adolesh
- 10.3
- 10.5 a)
- 10.7

11.1

- TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use
- Rhehinal is free to grant others the right to use the work results for individual or all types of use (right of use). The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, export reports/opinions, test apports/results, results calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose. subject to Mil proyment of the renumeration agreed in tenuous left of clause 11.2 of the GTCB is subject to Mil proyment of the renumeration agreed in tenuous left of the Client may only pass on the work results in Unless TUV Rheinland has given its provivation correct to the partial passing on of work results.
- 11.4
- work results in full unless 1UV Rhenland has given its pror written consent to the partial passing on I work results in Societies and public exploration of work results for schedinging purposes or any further use of Arry publication the explosition of the simbodation of 1UV Rhenland need the prior written approval of 1UV Rhenland need the prior written approval of 1UV Rhenland need the prior written approval of 1UV Rhenland and and certification rules, etc.). TUV Rhenland need the prior working potential or specific applicable testing and certification rules, etc.). TUV Rhenland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately afth own expense and, as first any soussile, or whicheavy publications not extend the client to selb operate logs, or oppose degree or optication of the work results intended to the propriets logs, or oppose degree or optication of the work results intended to perform the propriets logs, or oppose degree or optication of the work results declient to see the corporate logs, or oppose degree or setzic-officiation mark of 1UV Rheinland.

Liability of TÜV Rheinland

12.1

- Liability of TÜV Rheinland

 Irraspective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or lord, the liability of TÜV Rheinland for all damages, bases and reimbursament of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fleed overall feet, these times the representatives and/or employees shall be limited to: (ii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euror equivalent amount in local currency; and (iv) in the case of a famawork agreement that provides for the possibility of placing individual orders, three times of Nowthatandrian places and the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euror equivalent amount in local currency. The total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency.

 In the case is the contract the contract amount is local currency. The contract and accumulated insibility of TÜV Rheinland shall be only limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency. The contract has been shall not exceed the said 2.5 Million Euro or equivalent amount in local currency.

 In the contract has been shall not be contract and be limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency.

 In the contract has been shall not be supported by the season of the contract shall be limited or and shall not be contract. Any claim to damages to a submaniant breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such treach or contract unless such personnel made available is reported as vicarious agents. Or the claim to the clean to support TÜV Rheinland in the performance of its sevices under the contract unless such pers

When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law. The performance of a contract with the client is subject to the provisio that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or the performance due to national or international foreign trade legislations or embargos and/or the performance due to national or international foreign trade legislations or embargos and/or the performance of the national or international foreign trade legislations or embargos and/or the performance of the national or the performance of the performance of the national performance of the national performance of the performance of the national performance of the national performance of the performance of 13.1

sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incured thereof by TÜV Rheinland.

Data protection notice

The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to penceal information) of the client and its related parties (including but not limited to the client and its related parties (including but not limited to the client and its related parties (including but not limited to the client client or process the personal data that the client collected or processes day itself and transferred to TÜV Rheinland. For certain services, we may also process sensitive personal data. TÜV Rheinland will use and process the data in accordance with the relavant legal basis. It any personal data has to be disclosed or transferred to any hird party or any overseas party outde of the data has be disclosed or transferred to any hird party or any overseas party outde of the data has be disclosed or transferred to any hird party or any overseas party outde of the data has be disclosed or transferred to any hird party or any overseas party outde of the data has be disclosed or transferred to any hird party or any overseas party outde of the data has be disclosed or transferred to any hird party or any overseas party outde of the data has be disclosed or transferred to any hird party or any overseas party outde of the data has be disclosed or transferred to any hird party or any overseas party outde of the data has been depended to the data of the personal data. The personal subject to the data subject. TÜV Rheinland will early outdened to the processing plant the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the content of the processing plant and protection information. You can contact the Group Data Protection Officer of TÜV Rheinland W. Jernal at datasprotection officer, and Group post at the following address: TÜV Rheinland W. Jernal and data protection officers of TÜV Rheinland W. Jernal and Jernal data for TÜV Rheinland W. Jernal at datasprotection Officer, Am Grauen Stein, \$1105 Cologne,

- 15.2
- tion of test material and documentation

 The test samples submitted by the client to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's experies. The only exceptions are test stating requirement with the client.

 In storage or the basis of sistutions requirement with the client in storage on the basis of sistutions regulations or of another agreement with the client.

 Charges apply if the test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation. If reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples ander documentation, any liability claims for material and pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TUV Rheinland as allow olded.

 The retention period for the documentation shall be 10 (ten) years after the expiry of the test mark and GS mat contributions. The client of the contributions and the storage on the client's premises are more by the client against will be liable for the loss of test samples or reference samples from the laboratories or warehouses of TUV Rheinland only in case of gross negligence.

- Ination of the contract

 Nowthstanding clause 3.3 of the GTCB, TÜV Rheinland and the client are entitled to terminate the contract in set entitley or, in the case of services combined in one contract, each of the combined parts of the contract in set entitley or, in the case of services combined in one contract, each of the combined parts of the contract individually and independently of the contract individually and individual cases.

 In the overt of any serious missinguesentation, be it by intentional finand or grootsy negligent in contract does not belong to the insurance coverage applicable to TÜV Rheinland and TÜV Rheinland and TÜV Rheinland and the entities or alumps and confertation or notification, or other.

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- hip The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the

- The Parties are bound to perform their contractual duties even if events have rendered performance more ones than could reasonably have been anticipated at the time of the conclusion of the Monthitstanding paragraph 1 of this Clause, where a Party proves that:

 (a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract and that its corresponders, the Parties are (b) it could not reasonably here aexided or overcome the event or its engolistic elementate contractual terms which reasonably allow to overcome the consequences of the event.

 Where Clause 182 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party mixed pits Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other.

- invalidity, written form, place of jurisdiction and dispute resolution.

 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1. Should one or several of the provisions under the contract and/or less terms and conditions be Should one or several of the provisions under the contract and/or less terms and conditions to the state of 19.2 19.3

- ITUV Rheritiand in question is legally registered and existing in 1-mm.

 The hereby agree that the contract and these terms and conditions shall be governed by the laws of Takwar.

 It TOV Rheritind in question is legally registered and existing in Hong Kong, the contracting is TOV Rheritind in the contract and these terms and conditions shall be governed by the laws of Hong Kong.

 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.

 Unless otherwise seputated in the contract, if no cellement or no agreement in respect of the Unless otherwise seputated in the contract, and the contract and the settled friendly through negotiations.

 The contract is the contract, and the contract and the settle state of the straing of the dispute, the dispute shall be submitted:

 The case of TOV Rheritation fuestion being legally registered and existing in the People's Republic of China, to China International Economic and Trada Arbitration Commission (CETAC) submitted. The arbitration shall take place in Beijing, Shenghai, Shenchen or Chongqing as appropriately chosen by the claiming party, in the case of TUV Rheritation for question being legally registered and existing in Takwan, to Chinese Arbitration Association, Tages to be arbitrated in accordance with is then current Rules in the case of TUV Rheritation factor glegally registered and existing in Ching Kong, to Hong Kong in the machine of the Chinese of Administered Arbitration Rules in force when the Niction of Arbitration submitted in accordance with is the case of TUV Rheritation force when the Niction of Arbitration submitted in accordance with in the case of TUV Rheritation force when the Niction of Arbitration submitted in accordance with in the case of TUV Rheritation force of the Chinese and existing in Turbon Kong in force when the Niction of Arbitration submitted in accordance with in the obstimited and accordance with in the obstimited in accordance with in the case o