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ATEX QAN, IECEx QAR and ISO 9001 Audit Report

Certificate **CML ATEXQ12869** **GB/CML/QAR20.0004**

Applicant **Urnabeam illumination co., ltd.**

Report **R12869B/00**

Date (of issue) Sep., 2019

CML B.V. Hoogoorddreef 15, Amsterdam 1101 BA The Netherlands

Eurofins E&E CML Limited Newport Business Park, New Port Road, Ellesmere Port CH65 4LZUK

1 Introduction

1.1 Summary review

Audit Scope		ATEX QAN	<input checked="" type="checkbox"/>
		IECEX QAR	<input checked="" type="checkbox"/>
		ISO 9001	<input type="checkbox"/>
		Combined	<input type="checkbox"/>
Audit Type	:	Initial Assessment (Stage 1/Stage 2)	<input type="checkbox"/>
		Re-Assessment	<input type="checkbox"/>
		Surveillance Assessment	<input checked="" type="checkbox"/>
		Change to approval	<input type="checkbox"/>
		Certificate Transfer	<input type="checkbox"/>
Manufacturer Include Address with post code	:	Urnabeam illumination co., ltd. No. 305 workshop, Aike industrial park, No. 1 Lane 1, Dabao road, Dalang community, Xin'an street, Bao'an district, Shenzhen city, Guangdong province, P.R. China Post Code: 518100	
Authorised person	:	Joyie Fu	
Contact Email/Phone	:	joyiefu@urnabeam.com / 00 86 15099901755(Urnabeam)	
Production Site(s) audited Include Address with post code	:	No. 305 workshop, Aike industrial park, No. 1 Lane 1, Dabao road, Dalang community, Xin'an street, Bao'an district, Shenzhen city, Guangdong province, P.R. China Post Code: 518100	
Approx No of employees		Total applicable to management system:12 Total applicable to Ex:12	Total applicable to management system: Total applicable to Ex:
Scope of operations (business functions) Business activities, product/service Language/s	:	Lights English	
Changes to scope (surveillance/reassessment only)	:	New protection is added. Protection type 'd' and IEC60079-35-1 are added.	
Product Description	:	<i>Luminaires and caplights for mines</i>	

IECEX QAR Reference No: GB/CML/QAR20.0004

CONFIDENTIAL

Audit report Reference No: R12869B/00

Electrical equipment with type(s) of protection of	:	d <input checked="" type="checkbox"/> p <input type="checkbox"/> q <input type="checkbox"/> o <input type="checkbox"/> e <input type="checkbox"/> is <input checked="" type="checkbox"/> v <input type="checkbox"/> n <input type="checkbox"/> m <input type="checkbox"/> s <input type="checkbox"/> op <input checked="" type="checkbox"/> t <input type="checkbox"/> Trace heating <input type="checkbox"/> Protective system <input type="checkbox"/> Non-elec <input type="checkbox"/> Other (specify) <input type="checkbox"/> IEC 60079-35-1	
Technical areas	:	Electronics <input type="checkbox"/> Diesel engines <input type="checkbox"/> Gas detectors <input type="checkbox"/> Moulding <input type="checkbox"/> Trucks <input type="checkbox"/> Func S (prod) <input type="checkbox"/> Machining <input type="checkbox"/> Motors <input type="checkbox"/> Func S (soft) <input type="checkbox"/> Fabrication <input type="checkbox"/> Luminaires <input checked="" type="checkbox"/> Assembly <input checked="" type="checkbox"/> Dispensers <input type="checkbox"/> Casting <input type="checkbox"/>	
Scope of EA Codes	:	17 Basic metals and fabricated metal products <input type="checkbox"/> 18 Manufacture, repair and installation of machinery and equipment <input type="checkbox"/> 19 Manufacture and repair of electrical equipment, computer, electronic and optical products <input type="checkbox"/> 19 Manufacture and repair of electrical equipment <input type="checkbox"/> 29 Wholesale of: machinery, industrial equipment; other particular products; ICT; mining, construction and civil engineering machinery; other machinery and equipment <input type="checkbox"/> 34 Engineering activities and related technical consultancy, specialised design activities and other professional, scientific and technical activities <input type="checkbox"/>	
Audit Team Leader/Audit Team	:	Name and Position	Role in Audit (<i>Sole Auditor, Team Leader, Auditor, Technical Specialist, etc</i>)
		[Name] Xu Jianwen <i>[Position] Auditor</i>	Sole Auditor
		[Name] <i>[Position]</i>	
		[Name] <i>[Position]</i>	
Audit Date	:	Sep. 25,26, 2019	
Duration of Audit	:	Two days	

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1.2 List of Certificates (Not applicable to ISO 9001 only assessments)

Product Description	ATEX Certificate number	IECEX Certificate number
Ex d, EF1 Type Explosion-proof aluminium alloy LED lamp	LCIE 16 ATEX 3006	
Ex IS and OP, EH1/EH1S Type Explosion-Protected PC LED lamp	TUV IT 18 ATEX 059X	IECEX TPS 18.0024X

1.3 Critical suppliers

Name of Supplier	Critical item or service provided
SZ Fuhua precision Co., LTD.	Enclosure
Shen Zhen Shi De Yi Xin Electronics Co.,Ltd.	PCB
SZ Haibo New Energy Co., Ltd.	Li-on cells
SZ Xuhengguan Electronic Tech. Co., Ltd.	LED Light Source

2 Assessment Summary and Conclusions

2.1 Summary

The Urnabeam illumination co., ltd.do design, production and inspection mainly. Their products are used in group II and group I. The company currently hold ISO 9001:2015 certificate. The product that produced by the manufacture is purchased by SYSMAX Innovations Co., Ltd. The SYSMAX Innovations Co., Ltd. sell them to their client. The current scope of audit includes the products that refer to 1.2. The manufacture does assembly mainly. The current product information of audit includes Lights.

The manufacture has documented QMS requirements pertaining to ISO/IEC 80079 -34 by means of Quality Manual. They do cooperation very well. In this audit, there are in total 3 findings recorded during this audit. From this audit, it was found that the QMS of the manufacture need to improve in some field, in order to demonstrate good amount of compliance to ISO/IEC 80079 -34 requirements during next audits. Many measurements need to take to enhance the QMS. In this audit, because the manufacture can finish a good product, so it is recommended 'Certification to be issued' following satisfactory documentary evidence supporting effective corrective action.

2.2 ISO 9001 Certification

The manufacturer has the following ISO 9001 certification. *(if not ISO 9001 certified then the applicable clauses of ISO 80079-34 shall be fully addressed and this section is to be removed)*

ISO 9001 certificate No	Certified by	Expiry date	Scope
QAIC/CN/185187	Q.A International Certification Co., Ltd	2021.08.05	The Technological Development, Manufacture of Illumination Equipment's Comprising of Electric Torch, Front Light, Portable Explosion-proof lamp(<15V)

If ISO 9001 certified, are non-conformities from latest ISO9001 audit reviewed?

Yes No N/A (no NCs)

2.2.1 Comments to ISO 9001 non-conformities.

There are no non-conformities.

2.3 General information

2.3.1 Summary of operations and activities, subcontracted work.

On Urnabeam , check their route test and special process, they have guide and finish well. The main subcontracted work is listed on sheet 1.3. In this audit, the supplier of d type and OPIS protection are checked. The PCB and LED light source are controlled very well, the supplier provide the relative TR of Enclosure, PCB and LED light source.

2.3.2 Changes to the organisation

No Change

2.4 Use of marks and logos (notes)

(checklist to be completed at each assessment visit. Tick to confirm that each mark has been checked, do not tick if not applicable. Mandatory requirement)

<input type="checkbox"/>	ATEX Hexagon, only on ATEX products
<input checked="" type="checkbox"/>	CE Mark, only on equipment subject to applicable European directives -Yes
<input type="checkbox"/>	Notified body number, only on EC Type ATEX equipment and components (Cat 1 and 2 electrical, protective systems) Not Cat 2 non-electrical or Cat 3
<input type="checkbox"/>	IECEX logo, not used on equipment, marketing only if IECEX approval held
<input checked="" type="checkbox"/>	IECEX mark, only if licence issued by ExCB is held. Mark licence granted by each ExCB that has issued certificates.
<input type="checkbox"/>	Use of CML and UKAS marks for ISO 9001 certified clients (UKAS Mark only to be used in accordance with requirements of BEIS conditions of use of accreditation logo and symbols) (CML Mark only to be used in accordance with Certification Agreement ManSys requirements)

2.5 Recommended Audit Interval

Recommended audit interval (auditor recommendation)	:	[18 month] My recommendation is 18 months because customer holding valid QMS certificate. And their products are not too much, and the manufacture only do assembly. [Location/s] No. 305 workshop, Aike industrial park, No. 1 Lane 1, Dabao road, Dalang community, Xin'an street, Bao'an district, Shenzhen city, Guangdong province, P.R. China Post Code: 518100
Non-conformities:	:	[1 of] Major [2 of] Minor Refer to Non-conformities form

2.6 Observations

The new standards was carried in short time, the manufacture have too much product, the subcontract working and training need to pay more attention.


2.7 Audit Team Leader Recommendations

<input type="checkbox"/>	Certification to be issued/maintained	Once satisfactory technical assessment of the product is completed and a test report is issued
<input type="checkbox"/>	Certification to be issued/maintained	No findings have been raised
<input type="checkbox"/>	Certification to be issued/maintained	Following receipt of satisfactory documentary evidence supporting effective corrective action, and a test report is issued. Corrective action to be verified at next surveillance visit
<input type="checkbox"/>	Certification to be issued/maintained	Following a satisfactory follow-up visit and verification that corrective actions have been effectively documented and implemented, and audit report issued.
<input checked="" type="checkbox"/>	Certification to be issued/maintained	Following submission of satisfactory proposed corrective actions and technical review. Corrective action to be formally verified at next visit.
<input type="checkbox"/>	Certification to be refused/suspended	A further complete assessment to be conducted
<input type="checkbox"/>	Certification to be refused/suspended	Close the application/withdraw the notification and inform the Scheme Administrator

2.8 Signatures

2.8.1 Audit Team Leader

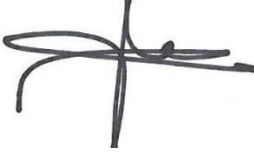
By signing the audit team leader confirms the accuracy of the report and that no consultancy services have been provided to the client

Audit Team Leader (name):	Xu Jianwen
Signature:	
Date:	Oct, 26 th , 2019

2.8.2 Technical Review (to be completed by Eurofins CML)

By signing this report the technical reviewer acknowledges that:

- the information provided by the audit team is sufficient with respect to the certification requirements and the scope for certification;
- any corrective actions that may have been raised have been reviewed, accepted and verified for all non-conformities that:
 - represent failure to fulfil one or more requirements of the management system standard;
 - raise significant doubt about the ability of the client's management system to achieve its intended outputs.
- the client's action plan for any other non-compliances have been reviewed and have been accepted.
- Agrees with the audit team leader's recommendation regarding certification.

Technical Reviewer (name):	Afsaneh Jafari
Signature:	
Date:	19/12/19

2.8.3 Certification Decision (to be completed by Eurofins CML)

By signing this report the certification decision maker agrees with the recommendation regarding certification made by the technical reviewer and audit team leader.

Certification Decision maker (name):	Afsaneh Jafari
Signature:	
Date:	07/01/2019

2.9 Date of next Audit (to be completed by Eurofins CML)

Date:	March 2021
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3 Audit information

3.1 Scope of Audit:

- Type A** initial assessment/reassessment of manufacturer with a certified QMS*
- Type B** initial assessment/reassessment of manufacturer without a certified QMS
- Type C** surveillance of manufacturer with a certified QMS*
- Type D** surveillance of manufacturer without a certified QMS
- Type E** initial assessment/surveillance/reassessment for ISO 9001 only

* where manufacturer has a certified quality system, include certification/registration body, date of registration, certificate No. and scope or append a copy of the certificate (including scope)

3.2 Audit criteria

The following documents were used as reference during the audit (*tick as appropriate*):

<input checked="" type="checkbox"/>	ISO/IEC 80079-34:2018
<input type="checkbox"/>	ISO 9001:2015
<input checked="" type="checkbox"/>	Directive 2014/34/EU (ATEX)
<input checked="" type="checkbox"/>	Client processes and documentation described in management system
<input type="checkbox"/>	(Any other documentation, amend as necessary)

3.3 Interviewed Representatives of Manufacturer (Auditee):

Name	Position	Opening Meeting ¹	Interviewed during audit	Closing Meeting ²
Joyie Fu	General Manager of Manufacture	√	√	√
Liu Xiulan	Manager of Manufacture Dept / Shop Manager	√		√
Liu Liwen	Assistant Manager of QS Dept	√	√	√
Xiao yongmei	Manager of QC Dept	√	√	√
Yangbo	Manager of Technology Dept	√		√

¹ For opening meeting agenda items refer to audit handbook

² For closing meeting agenda items refer to audit handbook

4 Documentation Review and Assessment of Implementation (ATEX/IECEX QA Assessments only)

(For surveillance audits, major document changes only may be reviewed)

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
4.	Context of the Organization			
4.1	Understanding the Organization and its context	Y	The manufacture compiles the Quality Manual (UR-QM-01), Rev. B/1. The QM is compiled according to EN ISO/IEC80079-34:2011. The new standard ISO/IEC80079-34:2018 is issued, the manufacture should update their QM in next audit.	
4.2	Understanding the needs and expectations of interested parties	Y	ISO9001 certificate cover this clause.	
4.3	Determining the scope of the quality management system	Y	ISO9001 certificate cover this clause.	
4.4	Quality management system and its processes	Y	The manufacture compiles the Quality Manual (UR-QM-01), Rev. B/1. The QM specify their Ex product should comply with the document approved.	
5.	Leadership			
5.1	Leadership and commitment	Y	ISO9001 certificate cover this clause.	
5.1.2	Customer focus	Y	ISO9001 certificate cover this clause.	
5.2	Policy	Y	The manufacture compiles the Quality Manual (UR-QM-01), Rev. B/1. In the QM, the manufacture their policy.	
5.2.1/2	Establishing and Communicating the quality policy	Y	ISO9001 certificate cover this clause.	

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
5.3	Organizational roles, responsibilities and authorities	Y	The manufacture compiles the Quality Manual (UR-QM-01), Rev. B/1. In the QM, a letter of appointment is issued, Mr. Joyie Fu is approved to be responsible to manage the IECEX system and have the responsibility that standards specify.	
6.	Planning			
6.1	Action to address risks and opportunities	N/A	ISO9001 certificate cover this clause.	
6.2	Quality objectives and planning to achieve them	N/A	ISO9001 certificate cover this clause.	
6.3	Planning of changes	N/A	ISO9001 certificate cover this clause.	
7.	Support			
7.1	Resources	N/A	ISO9001 certificate cover this clause.	
7.1.2	People	N/A	ISO9001 certificate cover this clause.	
7.1.3	Infrastructure	Y	Infrastructure found suitable to manufacture IECEX product within certified scope. Cemented operation guide is specified. (Document No. PD-WI-003, Rev.A); The operation process and the solidification process are specified. Overpressure procedure(PD-WI-004) specify the method, data of pressure test (Test pressure: 1.0~ 1.2Mpa, duration: not less than 10S).	
7.1.4	Environment for the operation of processes	Y	Safe work practices (safety shoes, gloves etc) observed on shop floor.	

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
7.1.5	Monitoring and measuring resources	Y	<p>For Urnabeam illumination co., ltd.,</p> <p>Procedure: 《Monitoring and Measuring Device Control Procedure》 (Document No. UR-QP-18, Rev. B/0</p> <p>The document is approved by manufacture.</p> <p>The calibration is done with help of third party calibration lab accredited to Chinese national standards. (Shenzhen Tiansu Calibration and Testing Co.Ltd.) .</p> <p>The Calliper (Z20190-G107082, dates July. 19th., 2019),</p> <p>Digital Multimeter (Z2019J2-G107076, dates July 16th, 2019)</p> <p>Pressure gauge (2016 3 609, dates June 10th, 2019)</p> <p>The Standard Light Source (GFJGJL200418126106, dates July.01, 2018)</p> <p>Digital Illuminometer (Z20196-G107131, Date July 16th., 2019)</p> <p>Thread Gauge (Z20190-G107114 and Z20190-G107114, Dates July 16th., 2019)</p> <p>The third-party calibration lab sticks a label for the satisfied instrument. The No. of instrument is written on the label to keep the traceability.</p> <p>After calibration, the manufacture does assessment for the part of instrument. Check the assessment document of the Roughness, the result is OK.</p>	

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
7.1.6	Organizational knowledge	N/A	ISO9001 certificate cover this clause.	
7.2	Competence	Y	<p>Procedure: «Human resources Management procedure» (Document No. UP-QP-04, Rev. B/1).</p> <p>Aug. 08th., 2018, the Mr. Joyie Fu take part in the training provided by TUV SUD, a certificate is issued by TUV SUD .</p> <p>For the IEC 60079 series standards, both manufacture do not compile plan to do training. Next audit should check the training in this field.</p> <p>The manufacture specify the requirement of their position in company. But the job qualification do not include the content of IECEX system.(Finding 01).</p>	01
7.3	Awareness	N/A	ISO9001 certificate cover this clause.	
7.4	Communication	Y	<p>Procedure: The Communication Management and Control Procedure (UR-QP-25, Rev. A/0),</p> <p>The manufacture specify the method of internal communication external communication. The manufacture send the Ex information of product to their stuff by meeting, and send product manual to their client every year.</p> <p>The product manual list the Ex information on the document.</p>	

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
7.5	Documented Information	Y	<p>The technical document is only kept by Urnabeam illumination co., ltd., so this part only check the Urnabeam illumination co., ltd.</p> <p>Procedure: 《Document Control Procedure》 (Document No. UR-QP-01, Rev. B/1) and 《Record Control Procedure》 (Document No. UR-QP-02, Rev. B/1).</p> <p>The manufacture specify the Ex drawing and Ex certificate should be kept and review every year, all the Ex drawing issued to production Dep. should have marking "Ex", and the IECEX drawing issued to relative Dep. have the same marking, to keep the drawing and product are same.</p>	
7.5.2	Creating and updating	N/A	ISO9001 certificate cover this clause.	

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
7.5.3	Control of documented Information	Y	<p>Procedure: 《Document Control Procedure》 (Document No. UR-QP-01, Rev. B/1) and 《Record Control Procedure》 (Document No. UR-QP-02, Rev. B/1).</p> <p>The procedure specify how to control the technical document on site. On site, the assembly document with ' Under Control' and 'Ex' marking, On site check the assembly guide (No. PD-WI-03). And the manufacture specify if the document and record have relationship with Ex product, they will be kept 10 years at least.</p>	
8.	Operation			
8.1	Operational planning and control	Y	<p>Refer to Annex A</p> <p>Cemented operation guide is specified. (Document No. PD-WI-003, Rev.A); The operation process and the solidification process are specified.</p> <p>Overpressure procedure (PD-WI-004) specify the method, data of pressure test (Test pressure: 1.0~ 1.2Mpa, duration: not less than 10S).</p> <p>The manufacture does the process according to guide.</p>	
8.2	Requirements for products and services	N/A	<p>SYSMAX Innovations Co., Ltd is charge of sale. Procedure: Client Service Control procedure NC-QP-13, Rev. B/1. Refer to audit TR of SYSMAX Innovations Co., Ltd</p>	

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
8.2.1	Customer Communication	N/A	The SYSMAX Innovations Co., Ltd is change of sale. Refer to audit TR of SYSMAX Innovations Co., Ltd	
8.2.2	Determining the requirements for products and services	N/A	The SYSMAX Innovations Co., Ltd is change of sale. And send the requirements for products to the Urnabeam illumination co., ltd. Refer to audit TR of SYSMAX Innovations Co., Ltd	
8.2.3	Review of the requirements for products and services	Y	<p>Because the Urnabeam illumination co., ltd. finish the design according to the SYSMAX Innovations Co., Ltd's requirement, so the Urnabeam illumination co., ltd. do the review.</p> <p>Before the manufacture apply for ATEX/IECEX certificate, they do assessment about their product, especially the Ex information. The technical Dep. and the lead of the manufacture take part in the meeting, make decision. On site, check the assessment TR of the following product:</p> <p>EF1 Type Explosion-proof aluminium alloy LED lamp EH1/EH1S Type Explosion-Protected PC LED lamp</p>	
8.2.4	Changes to requirements for products and services		The IECEX liaison take part in the assessment meeting about the products list in CL. 8.2.3 of this TR, and ensure the change do not affect the Ex performance.	
8.3	Design and development of products and services		The Ex products is approved by CB.	
8.3.1	General	N/A		

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
8.3.2	Design and development planning	N/A		
8.3.3	Design and development inputs	N/A		
8.3.4	Design and development controls	N/A		
8.3.5	Design and development outputs	N/A		
8.3.6	Design and development changes	Y	<p>Procedure: «Design control procedure» (Document No. UR-QP-12, Rev. B/1)</p> <p>The authorised person can make decision about the change that do not affect the Ex performance. The changes that affect Ex performance should ask to be approved by CB.</p>	
8.4	Control of externally provided processes, products and services			
8.4.1	General	Y	<p>Procedure: UR-QP-14, Rev. B/0, Purchase control procedure.</p> <p>The components of the following product are checked:</p> <p>EF1 Type Explosion-proof aluminium alloy LED lamp</p> <p>EH1/EH1S Type Explosion-Protected PC LED lamp</p> <p>They have same supplier of PCB, Li-on cells, LED Light Source . The d type enclosure is provided by supplier. For the IS type enclosure, because the requirement is less, this audit do not cover.</p>	

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
8.4.2	Type and extent of control		<p>Procedure: UR-QP-14, Rev. B/0</p> <p>Check the order of enclosure, (the 'd' type enclosure), Order No. is UR20190621001. The material TR is provided by the supplier. And the manufacture do incoming inspection to check the flameproof path and overpressure test.</p> <p>Check the order of PCB (order No. DXXHT 1909133) , the PCB complied with requirement of the manufacture, the supplier provide the TR and DOC of this PCB. On the order, The drawing No. are listed.</p> <p>Check the order of LED light source. Order No. is UR20190920001. The manufacture provide the specification and data.</p> <p>Check the order of Li-on cells. Order No. is UR20181022001. The manufacture provide the specification and data.</p> <p>The manufacture provides the drawing or requirement to supplier. The manufacture do assessment about supplier every year. On site, check the assessment of the above supplier .</p> <p>The record will be kept for long time.</p>	
8.5	Production and service provision			

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
8.5.1	Control of production and service provision	Y	<p>Procedure: Document No. SXTDMJ-Q-32-2017, Rev. E/1</p> <p>The manufacture can finish pressure test and final inspection. The performance test of equipment can be finished on site.</p> <p>The inspection record indicates 100% inspection of pressure test.</p> <p>The pressure test is carried at 1.0~1.2Mpa, duration is not less than 10S.</p> <p>The final inspection record includes visual inspection about fit, finish and flameproof data. The manufacture also checks the engaged data and thread accuracy.</p> <p>In assembly, the manufacture does assembly according to their operation guide.</p> <p>The manufacture asks the supplier to finish soldering by machine, the manufacture use magnifying lens to ensure the requirement according to the drawing by sampling.</p>	

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
8.5.1	Control of production and service provision	Y	<p>The manufacture has a darkroom, use the illuminometer to get the distribution curve. And the manufacture has the light distribution curve guide, the document No. is PD-WI-008A, Rev. A.</p> <p>Integrating sphere is used to ensure the quality of LED light source.</p> <p>On site, check the sample as the following model listed CL.8.4.1 of this TR.</p>	
8.5.2	Identification and traceability	Y	<p>Procedure: Document No. UR-QP-17, Rev. B/0</p> <p>The manufacture has assembly record to record the S/N of component. The enclosure has their own S/N, these S/N can be found on their body, it is easy to be found. The enclosure, electric component is marked and easily to be found. It is easy to identify and traceable.</p> <p>The PCB with electronic element with their own S/N, after inspection, the PCB install the product. The manufacture keeps the assembly record.</p>	
8.5.3	Property belonging to customers or external providers	N/A		

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
8.5.4	Preservation	Y	<p>Procedure: CI.8.5.4 of QM(UR-QM-01, Rev. B/1)</p> <p>The document specify the manufacture should have suitable protective method to protect the flameproof surface. On site, check the enclosure, the surface is placed in a separate wooden support.</p> <p>The component will put in different area with a clear marking to identify the status of the component.</p>	
8.5.5	Post-delivery activities	N/A	ISO9001 certificate cover this clause.	
8.5.6	Control of changes	Y	<p>Procedure: 《Design control procedure》 (Document No. UR-QP-12, Rev. B/1)</p> <p>The authorised person can make decision about the change that do not affect the Ex performance. The change that affect Ex performance should ask to be approved by CB.</p>	
8.6	Release of products and services	Y	<p>The Urnabeam illumination co., ltd. ensures the Ex performance. So only check the Urnabeam illumination co., ltd.</p> <p>Procedure: Document No. UR-QP-21, Rev. B/0</p> <p>When machine IECEX product, the manufacture do test 100%.</p> <p>If they find the non-conforming product or component, the manufacture will deal with the defect, the nonconforming product do not release.</p>	

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
8.7	Control of nonconforming outputs	Y	<p>Procedure: Document No. UR-QP-05, Rev. B/1</p> <p>Non-conforming product control necessary requirements are addressed via inspection record. The manufacture will inform the other Dep. by Tele. and keep the record.</p> <p>There was not any record about NC parts or concessions issued related to IECEx product.</p>	
9	Performance evaluation			
9.1	Monitoring, measurement, analysis and evaluation	N/A	ISO9001 certificate cover this clause.	
9.1.2	Customer satisfaction	N/A	ISO9001 certificate cover this clause.	
9.1.3	Analysis and evaluation	N/A	ISO9001 certificate cover this clause.	
9.2	Internal audit	Y	<p>Procedure: Internal audit control procedure (Document No. UR-QP-03, Rev. B/0)</p> <p>The internal audit should be done in 12 month, the latest audit was finished at June 12, 2019.</p> <p>A content of IEC80079-34 was not checked. (Finding 02)</p>	02
9.3	Management review	Y	<p>Procedure: Management review control procedure (Document No. Document No. UR-QP-08, Rev. B/0)</p> <p>The manufacture should do assessment in 12 month. The latest management is done at June, 20th, 2019</p>	
9.3.2	Management review inputs	Y	The latest management evaluation specify the content of input. Check the last management evaluation, the	03

EN IEC 80079-34 clauses		Assessed (Y, N or N/A)	Manufacturer's Doc. Ref. List document(s) viewed, with revision status, and Comments List any pertinent details / compliance with requirements of clause	Finding Ref.
			input do not include the result of IECEX/ ATEX audit. (Finding 03)	
9.3.3	Management review outputs	Y	The last management evaluation specifies the content of output. Check the latest management evaluation, the manufacture think their ATEX/IECEX quality system is OK.	
10	Improvement			
10.2	Nonconformity and corrective action	N/A	ISO9001 certificate cover this clause.	
10.3	Continual improvement	N/A	ISO9001 certificate cover this clause.	

Annex A: EN/IEC 80079-34 Information relevant to particular types of protection

A.2	General - Material composition of (parts of) enclosures	Y	Material TC is available	
A.3	Ex d - flameproof enclosures		The data of flameproof joint comply with the requirement of drawing. The routine test is done.	
A.3.1	Verification – visual inspection and measurement	Y	Material TC is available	
A.3.2	Castings		N/A	
A.3.3	Machining	Y	The enclosure is provided by the supplier, the manufacture do full inspection on flamepath dimensions	
A.3.4	Cemented joints and potted assemblies	Y	The manufacture do cemented joints according to guide(PD-WI-003, Rev.A), the duration time 24h, 6°C~30°C.	

A.3.5	Routine overpressure testing	Y	Pressure test, 100%, The body (Drawing No. EF1-0-08A): 1.0MPa, 10s. record No. is PD-R-17/A1, S/N No. is from 69A096 to 69A107. And check the final TR of the body(Drawing No. EF1-0-08A), the content is same.	
A.3.5.2	Batch testing		N/A	
A.3.5.3	Welded construction	N/A	No welded construction.	
A.3.6	Flanged joints	N/A	No flanged joints	
A.3.7	Elements with non-measurable paths, of breathing and draining devices		N/A	
A.4 Ex i - intrinsic safety covered by IEC60079-11			The supplier of PCB can provide the TR of the PCB, and the manufacture check PCB and have incoming TR. For the Li-on cells used as IS power supplier, the supplier have the specification and data , the quality can control well.	
A.4.1	Components for intrinsically safe products	Y	All the PCB and Li-on cells are provided by supplier, the quality can control well.	
A.4.2	Printed circuit boards (PCB)	Y	All the PCB is provided by supplier, but the quality can control well.	
A.4.2.1	Non-populated PCB's	Y	The supplier provides non-populated PCB's. The supplier provide DOC that comply with Annex C. A TR for CTI is provided by supplier. The manufacture does inspection about copper thickness, PCB thickness.	
A.4.2.2	Populated PCB's	N/A		
A.4.3	Sub-assemblies and assemblies	Y	The manufacture is finished assemblies, they use special test table to check the performance of IS circuit. And the manufacture do aging test of the circuit.	
A.4.4	Enclosures for Group III or reduced spacing	N/A	Not Group III.	
A.4.5	Routine verifications and tests	N/A		
A.4.6	Intrinsically safe circuits and assemblies incorporated in Ex equipment of other types of protection	N/A		
A.5 Ex e – increased safety covered by IEC 60079-7				
A.5.1	Ingress protection (IP)			

A.5.2	Internal wiring and contact integrity			
A.5.3	Rotating machines			
A.5.4	Windings			
A.5.5	Terminal boxes			
A.5.6	Cable glands terminals & other accessories			
A.5.7	Routine verifications and tests			
A.6 Ex p – pressured apparatus covered by IEC 60079-2				
A.6.1	Ingress protection (IP)			
A.6.2	Components and manufacturing process			
A.6.3	Components, constructional characteristics			
A.6.4	Routine verifications and tests			
A.7 Ex m – Encapsulation covered by IEC 60079-18				
A.7.1	Production documentation			
A.7.2	Routine verifications and tests			
A.8 Ex o – oil immersion- Liquid immersion covered by IEC 60079-6				
A.8.1	Material control			
A.8.2	Filling			
A.8.3	Ingress protection			
A.8.4	Routine verifications and tests			
A.9 Ex q – powder filling covered by IEC 60079-5				
A.9.1	Material control			
A.9.2	Filling			
A.9.3	Ingress protection (IP)			
A.9.4	Routine verifications and tests			
A.10 Equipment covered by IEC 60079-15				
A.10.1	Routine dielectric strength test			
A.10.2 Ex nA – Non-sparking equipment				
A.10.2.1	Circuit boards (PCBs)			
A.10.2.2	Terminal and internal wiring			
A.10.3 Ex nC – Sealed devices				
A.10.4 Ex nR – Restricted Breathing				
A.10.4.1	General requirements			
A.10.4.2	Cable Glands			

A.10.4.3	Plunger actuators, shafts and axles			
A.10.4.4	Test equipment			
A.10.4.5	Routine Tests			
A.11	Ex t Dust ignition protection by enclosure covered by IEC 60079-31			
A.11.1	Casting			
A.11.2	Enclosure parts			
A.11.3	Gaskets			
A.11.4	Protection devices			
A.11.5	Cemented and cast enclosure parts			
A.11.6	Ingress protection			
A.11.7	Routine verification and tests			
A.12	Ex op-optical radiation covered by IEC 60079-28			
		Y	<p>The illuminometer used in darkroom, the light distribution of the LED lighting can be tested and record.</p> <p>An integrating sphere is used, after calibrated by standard light source, then the manufacture use the device to measure the luminous flux of LED light source.</p> <p>The data of drive circuit is assembly by the manufacture, and the manufacture do inspection to check the data. On site, check the inspection record (No. PD-R-18/A1), the data comply with the requirement.</p> <p>The lens will be checked with the whole product, the manufacture chooses the product to ensure the light distribution comply with their requirement.</p>	
A.13	Gas detectors covered by IEC 60079-29			
A.14	Ex h – Non-electrical Equipment covered by ISO 80079-36			
A.14.2	Non-metallic parts			
A.14.3	Casing and external parts			
A.14.4	Earthing and equipotential bonding of conductive parts			

A.14.5	Light transmitting parts			
A.14.6	Ingress protection (IP)			
A.15	<i>Non-Electrical Equipment protected by constructional safety "c" covered by ISO 80079-37</i>			
A.15.2	Metal-based material			
A.15.3	Machining			
A.15.4	Cemented joints and potted assemblies			
A.15.5	Assembling			
A.15.6	Routine tests			
A.15.7	Power transmission systems			
A.16	<i>Non-electrical equipment protected by control of ignition sources "b" covered by ISO 80079-37</i>			
A.16.2	Ignition protection system			
A.16.3	Assembling			
A.16.4	Routine verifications and tests			
A.17	<i>Non-electrical equipment protected by liquid immersion "k" covered by ISO 80079-37</i>			
A.17.2	Protective liquid			
A.17.3	Casing			
A.17.4	Measuring or indicating devices			
A.18	<i>Flame arresters covered by ISO 16852</i>			

5 Audit detail

5.1 Summary of ISO 9001 parts covered by this assessment

Opening meeting	✓
Closing meeting	✓
Management of Change (organisational system and context)	✓
Management Review	✓
Internal Audits	✓
Customer feedback and corrective action	✓
Use of Logo (CML & Accreditation Marks)	✓
Performance against the client management system objective with continual improvement	✓
KeyBusiness Process 1 as defined in 5.4	
KeyBusiness Process 2 as defined in 5.4	
KeyBusiness Process 3 as defined in 5.4	
...	

5.2 Outstanding previous audit non-conformities/findings

Confirm that the corrective action has been implemented and the finding can be closed. Refer to findings from previous audit.

5.3 Management processes

Organisational context, interested parties, strategy, policies and objectives, management system documentation, management review, statutory compliance requirements, customer feedback, improvement initiatives, roles, responsibilities, internal audit, preventive and corrective action, KPI measurement (detailing audit trails, objective evidence, interviewees and process implementation effectiveness).

5.4 Business processes

Sales and marketing, purchasing, engineering, goods receiving, production, verification, storage, service and repair, despatch, document control, HR, equipment control/calibration, IT etc (detailing audit trails, objective evidence, interviewees and process implementation effectiveness).

5.5 Recertification focus/planning review (For use on ISO 9001 focus visit only)

Review performance of the management system over the current certification cycle to determine and confirm recertification visit duration and assessment programme.

6 Forward Audit Programme (ISO 9001 Assessment only)

Visit Type	Stage 1	Stage 2	SV1	SV2	SV3	SV4	Focus visit	Certificate Renewal
Due Date								
Start Date								
End Date								
Audit Days								
Separate assessment plan? (only for teams or multiple day visits)	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Any change in workforce numbers that may impact visit duration (if yes add new number)	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Where identified above see separate current assessment plan for further detail.								
Process / aspect / theme / location								
<i>Final selection will be determined after review of management elements and actual performance</i>								
Opening meeting	✓	✓	✓	✓	✓	✓	✓	✓
Closing meeting	✓	✓	✓	✓	✓	✓	✓	✓
Management of Change (organisational system and context)	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM
Management Review	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM
Internal Audits	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM
Customer feedback and corrective action	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM
Use of Logo (CML & Accreditation Marks)	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM

Visit Type	Stage 1	Stage 2	SV1	SV2	SV3	SV4	Focus visit	Certificate Renewal
Performance against the client management system objective with continual improvement	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM	AM/PM
Process 1	AM/PM	AM/PM	TBC					TBC
Process 2	AM/PM	AM/PM	TBC					TBC
Process 3	AM/PM	AM/PM	TBC					TBC
Process 4	AM/PM	AM/PM		TBC				TBC
Process 5	AM/PM	AM/PM		TBC				TBC
...								

7 Additional Information and Disclaimers

7.1 Opportunities for improvement

If we identify opportunities to improve your already compliant system, we will either record them in the process table applicable to the area being assessed or in the audit summary of the report if they can deliver improvement at a strategic level.

7.2 Confidentiality

We will treat the contents of this report, together with any notes made during the visit, in the strictest confidence and will not disclose them to any third party without written client consent, except as required by the accreditation authorities.

7.3 Sampling

The assessment process relies on taking a sample of the activities of the business, this uses representative examples and is not statistically based. Not all of activities of a business may be sampled in a detailed nature, so if no issues are raised in a particular process it does not necessarily mean that there are no issues and, if issues are raised, it does not necessarily mean that these are the only issues.

7.4 Legal entity

The accredited legal entity and client facing office that has provided the assessment service in this report is referenced in the applicable agreement for this service.

7.5 Generic audit objectives and team responsibilities

The generic audit objectives and team responsibilities are included in the Forward Audit Programme (ISO 9001 Assessment only). Any visit specific objectives for the next visit will be recorded in the report of the previous visit and will be addressed through the visit plan for that visit. The assessment standard and roles of the audit team are defined in the assessment visit confirmation sent to the client.

7.6 Audit Criteria

The audit criteria consist of the assessment standard and the client's management system processes and documentation.

7.7 Additional observers

Any additional observers will be as formally communicated to the client.

- End of report -