

Chief Power Energyman

LLC "SGCC"

" 2021 y.

Beknazarov

"O'zbekneftgaz" AJ
"Shurtan gaz kimyo majmuasi" MCHJ
MTRB xizmati
RO'YXATGA OLINDI
0741006-1884-1(eng)
2021yii"09-12

Reg. № 074/

TECHNICAL ASSIGNMENT for purchasing of the explosion-proof light fixture for production needs of LLC «Shurtan GCC»

No		1. GENERAL INFORMATION	
1.1	par chase	The explosion-proof light fixture	2
1.2	Basis and purpose of purchasing equipmen	Plan of Measures from 19.04.2021 for Modernization and Technical Renewal of Electrical Equipment of "Shurtan GCC", LLC Facilities (reg. No. 034/16-M from 20.04.2021).  This Technical assignment for the Purchase of The explosion-proof light fixture used for the purchase of appropriate equipment to provide with lighting of proces areas according to the lighting standards of "Shurtan GCC", LLC facilities (Furtheone). Due to the moral and physical obsolescence of existing lighting equipment, existing lighting fixtures installed at the facilities will not be able to provide with the required lighting according to standards and norms.	
1. 3	1 The model he wheels (year of	The delivered product shall be new to	produced not earlier than 2021 (which was not
1.4	manufacture / release of equipment)	in use, which was not restored, and it	ts consumer properties were not restored).
1.4	Development / manufacturing stages	Stage	Type of supporting document
		Development by the Supplier of the manufacturer's Design Documentation Package (further - DDP) for the manufacture of light fixture.	Design Documentation Package. Confirmation and agreement with the customer of the parameters of the light fixture.
1.5	Documents for development/production	Regulatory and design documentation assignment. Additional technical doc Customer upon Supplier's request.	n of the manufacturer. Present Technical umentations shall be provided by the
1.6	HS code and other international codes if	According to the current normative te	echnical documentation
1.7	applicable		
		Vendor Requirements  The Supplier shall deliver quality good	ds from the manufacturer or its official
		five years' experience at the manufac supplier shall have experience at supp processing and gas chemical plants (a last three years). The prospective supp with the relevant information confirm including information on the technica	explosion-proof light fixture having at least ture of similar equipment. The prospective oblying explosion-proof equipment at gas t least 5 similar equipment contracts in the oblier shall provide in his commercial proposal ing compliance with the above requirement, I characteristics of previously delivered ce list of previous Customers indicating the
			ictalis of buyers.
2.1	2. SCOPE OF APPLICATION  The explosion-proof light fixture designed specifically for illuminate the gas processing process zones of "Shurtan GCC", LLC. The explosion-proof fixture are will be used for lighting of premises and indepting the control of the contro		
2.1	GOST R 51330.9-99.	ing of premises and industrial sites in exp	process zones of "Shurtan GCC", LLC. The closive zones Zone 1 and Zone 2 according to
3.1	General operating conditions	3. OPERATING CONDITIONS	
3.1	General operating conditions	Ambient temperature during operation from -45 °C to + 50 °C Category of climatic versions: UHL1 (УХЛІ) According to GOST 15150-69. Degree of protection from external influences - not lower than IP66;	
3.2	Additional / Special requirements	Certificates of compliance with the following standards: 2ExedIICT5 DIP A21 TA70 ° C 1ExdbembIICT5 GbX Compliance with EU standards: EN 60079-0, EN 60079-1, EN 61241, EN 60529 Compliance with GOST R: 51330.0-99, 51330.1-99 Certificates of comprise: INERIS 01 ATEX 0056X, POCC IT. GB05. V02539	
3.3	Requirements for equipment operating costs	Certificates of compliance: INERIS 01 ATEX 0056X, POCC IT. Γ605. B02539  In accordance with the manufacturer's NTD. The Supplier shall provide in the DDP a list of consumables and spare parts required for two years of operation of the supplied equipment.	
1	4.1	TECHNICAL REQUIREMENTS	
4.1	Main technical requirements	Type of mounting: Pole type/ suspende Cable core cross-sections: 3x (1.5-2.5) Number and type of cable entries: M25 The diameter of the supplied cable is 9-Conditional passage fitting: 25 mm Rated voltage ~230AC Input voltage tolerance - ±10% Rated frequency, 50 Hz CCT, K:6500 Luminous flux pulsation factor: 1% Protection class against electric shock: I Light source efficiency of 120 Lm / W; Color rendering index ≥80-89 Ra (1B) Luminous flux of the light source: For 2x9 W -2160-2495 lm:	mm (L+N+PE) x1.5 -14 mm.  TEXNIX TOSHION OF TEXN
4.2	Main technical, economic and operational indicators	For 2x18 W -4320-4980 lm; According to NTD	vermus.

4.3	Reliability requirements	- Specified no-failure operating time, h, not less than 100,000;	
	a a	- Specified service life until overhaul, not less than 5 years:	
		- Full service life - not less than 25 years.	
4.4	Design requirements, Installation and	TC	
7.7	technical requirements	Type of mounting: suspended, with double fixture to the pipe of Ø 60 mm with	
	technical requirements	stainless clamp (clamp shall be supplied in set). Interlocking switch in the light	
		fixture housing, which disconnects the 220 V network when the protective cap is	
		removed under voltage. The circuit breaker design must correspond to - ExedIICT5. The terminals used to connect the conductors must be Exe. Luminous	
		intensity curve type: Semi-wide. The connection is made through a cable entry.	
	·	Cable entries shall be stainless metal for armoured cable for wire and cable entry.	
		The clear polycarbonate cap shall be closed tightly with metal clips. Case of light	
	1	fixture made of impact-resistant antistatic polyester reinforced with long fibres of	
		glass fibre, with transparent polycarbonate cap, which is fixed by clamps made of	
		stainless steel. For convenience and time saving for replacement of light fixture, the	
		translucent panel of the explosion-proof light fixture must be fixed with latches	
4. 5	Material requirements	Material for case manufacture is a black polyester reinforced with glass fiber. Light	
		source – is LED lamp with two-pin (bi-pin) base of Ex design. The light source	
		shall be protected by a transparent cap made of high strength monolithic	
		polycarbonate (polycarbonate thickness is not less than 7 mm). The light	
		transmittance of the polycarbonate protective cap shall be at least 98% of the	
		source illumination. Illuminator reflector made of anodized aluminum. Seals	
		between the cover and the housing shall provide with protection on demand for the	
4.6	Requirements for stability and parameters	entire service life of the light fixture.	
	under the influence of environmental	Requirements for Stability and Parameters under the Influence of Environmental	
	factors	Factors. Light fixture shall have the form of explosion protection - "explosion-proof casing" as per GOST R 51330.1-99 (IEC 60079-1-98); explosion protection level -	
		"explosion-proof electrical equipment" with their design in accordance with the	
		requirements of GOST R 51330.0-99 (IEC 60079-0-98). The light fixture shall be	
		provided with Increased protection of "e" type. Environmental factors should not	
		affect parameters. Light fixture used in manufacturing shall be super bright and its	
		service life shall not be less than 100,000 hours. The light transmittance of a	
		transparent protective cap made of monolithic polycarbonate shall not be lost when	
		exposed to an external environment below 90% for the entire service life Explosion-	
4		proof light fixture shall be resistant to constant exposure to aggressive media	
		including hydrogen sulfide vapors, chemically resistant to operating media and	
4.7	Power supply requirements / Power supply	resistant to UV radiation.	
	requirementsr:	~ 230 V, 50 Hz, ± 10%.	
	requirements.	Power Factor ( $\cos \varphi$ ): 0.95	
4.8	Requirements for control and measurement	Compliance with the standard ISO 50001: 2018	
	devices and automation	According to the manufacturer's technical technical conditions.	
4.9	Requirements for components, initial and	Fixing the clampa to the lower had a half to be a	
	operational raw materials, as well as	Fixing the clamps to the lamp body should be on M8 bolts Distances between mounting bolts of M8 type clamps:	
	finished products	- 400 mm for light fixture of 2x9 W;	
	4	- 450 mm for light fixture of 2x18 W;	
		Lamp dimensions shall be in accordance with the standard for lamp T8 with base	
		013.	
		- 1200 mm for 18 W;	
		- 600 mm for 9 W;	
	Morling	- Start-up equipment shall be explosion-proof.	
4.10	Marking requirements	Marking shall comply with the requirements of the state standards of the Republic	
4.10		of Uzbekistan and consistent, not inferior to international generally accepted	
		standards. The marking of the goods shall contain the decrypted name of the	
		equipment, the name of the manufacturer, the address of the manufacturer's location and the date of issue.	
		Type of explosion protection, degree of protection as per IP.	
		Marking shall include:	
		- Name of the manufacturer or its registered trademark;	
		- Designation of electrical equipment type;	
		- Serial number according to the numbering system of the manufacturer	
1 11	D	- Name or mark of certification body and certificate number:	
4.11	Requirements for dimensions and	Equipment and packaging shall be marked in accordance with regulatory	
	packaging	documents. The Supplier shall ensure availability of information about the	
		equipment in the state language of the Customer and in Russian in the open and	
		easily accessible places. The packaging shall ensure the safety of the goods during	
		transportation, loading and unloading operations and movement of the goods to the	
		place of their installation. Packaging shall comply with the requirements of state	
		standards of the Republic of Uzbekistan and international generally accepted standards. Packaging shall be strictly consistent with the parking of the goods.	
		Equipment damaged during transportation shall be replaced with a new one acide	
1	1.7	Supplier's expense on the basis of the certificate issues he the Customer.	
1		Requirements for the dimensions, packaging, shipment affixonds must comply with	
1	*	GOST for packaging and shipment and ensure safe and reliable delivery of goods	
		to the destination. Transportation of packaged Equipment's performed by any trans	
		of transport that protects the products from exposure to solar regulation suddents.	
		temperature surges, atmospheric precipitation and dust with observance of	
		precautions against mechanical impacts.	
		MILES	

		Loading, attachment and transportation of Equipment in vehicles shall be carried out in accordance with the current rules of cargo transportation, taking into account	
	6	manipulation marks of container marking as per GOST 14192-96.  The equipment shall be supplied in non-refundable packaging as one transport unit	
4.12	Requirements for SPTA and quick-wearing parts	SPTA package shall ensure operation for two years taking into account consumption norms and availability of quick-wearing parts in the design (with	
	5 BEOLUDE AND	indication of name and quantity in the technical proposal).	
5.1	5. REQUIREMENTS FOR THE DELIVERY AND ACCEPTANCE RULES		
5.1	The procedure for delivery and acceptance	Explosion-proof light fixture shall be tested in functional-assembled form on the test equipment of the manufacturer. On-site tests shall be carried out at least 72 hours. The Supplier shall inform the Customer about the readiness of the goods tweeks prior to the expected shipment date and send a notice about the beginning of shipment of the goods. Acceptance of the goods is carried out on the territory of the customer.	
5.2	Requirements for transmitting technical and other documents to the customer when delivering equipment	The Customer shall be provided with the product documentation in Russian or wit translation into Russian consisting of:  - Certificates for explosion-proof light fixture;  - Installation and adjustment instructions of the unit;  - Electrical connection diagrams;	
		Certificates for explosion-proof light fixture;     Specifications and statements of equipment and materials with dimension drawings and other technical characteristics;     Power supply and protective grounding diagrams:	
		- Operation, Maintenance and Repair Manuals of the unit; - Certificates on demand.	
5.3	Equipment insurance requirements	The equipment shall be insured according to CIP delivery conditions.	
	6. TRA	ANSPORTATION REQUIREMENTS	
6.1	Equipment transportation requirement	According to GOST 23216 and GOST 14192. The Supplier shall deliver at its own expense. When transporting goods, take into account the weather conditions. Damage to the goods and deterioration of the quality of the goods associated with improper transportation is considered a case leading to non-acceptance of the goods.	
7.1	7.	. STORAGE REQUIREMENTS	
7.1	In accordance with the manufacturer's NTD. The period of equipment storage before commissioning is up to 12 months.		
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	App Name	Page Number	
	19. LIST OF APPENDICES		
	SanPiN	Sanitary regulations and norms	
	NTD	Normative and technical documentation	
	Abbreviation	Explanation of the abbreviation	
	18. LIST OF ACCEPTED ABBREVIATIONS		
	rine documentation must be in the official language and duplicated in Russian and English, on paper, be the original (have blue signatures and seals) priority Russian language; On electronic media (USB HDD) provide: Documentation must be transferred to the Customer together with the equipment.		
	17. REQUIREMENT FOR THE FORM OF INFORMATION TO BE SUBMITTED		
16.5	Other related services	Not required	
16.4	Training requirements for the customer's personnel	Not required	
16.3	Pre-commissioning requirements	Not required	
16.2	Installation supervision requirements	Not required	
16.1	project documentation	Required	
	16. REQUIREMENT FOR R	manufacturer's specification; 2) Set of technical and shipping documentation within the scope specified in subsection 5.2 of this TA. 3) Explosion-proof cable entries and fittings for light fixture. 4) 2x9 W and 18x2 W ultra-bright LED lamps for each light fixture. 5) Relevant explosion protection certificates.  ELATED SERVICES WHEN DELIVERING EQUIPMENT	
		Components of explosion-proof light fixture shall comply with the technical assignment and factory configuration.  The supply set shall include:  1) Set of spare parts for the warranty service life within the scope stipulated by the	

<sup>\*</sup>Note: The developer is responsible for the correctness of filling in and not filling in the item.

Developed by:

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