



ЗЕЛЕНА ТОПЛИНА

Воведување ефикасна услуга за централно греење ориентирана кон потрошувачите, преку мала дистрибутивна мрежа базирана на обновливи извори на енергија

GREEN HEAT

Introduction of efficient customer-oriented small-grid district heating service based on renewable energy sources

РЕПУБЛИКА СЕВЕРНА МАКЕДОНИЈА

ОПШТИНА РАДОВИШ

Бр. 34-278/16

28.05 2024 год

Радовиш

Questions and answers received regarding the tender for Provision of work-turnkey project for installation of high - efficient alternative central heating system (heat pumps) in Primary school "Krste Petkov Misirkov, Secondary School "Kosta Susinov", Kindergarten "Aco Karamanov", Sports Hall "25 May and Administrative Building of Municipality Radovish, Republic of North Macedonia

- **Question no.1** - for new distributors and collectors DN250 L=1200mm for connecting the pipes of the new heat pumps in the engine room. Where there are two or three heat pumps, these distributors and collectors are not included in the specifications. There is only a position for correction of the existing distributors and collectors. On which new connections should be made the connection for the new installation? (In specifications: Secondary School "Kosta Karamanov", Radovish Municipality Administrative Building and Primary School "Krste Petkov Misirkov")

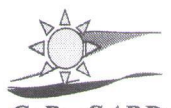
Answer: In the specified Bill of Quantities, new distribution dividers and busbars are not fabricated; instead, the existing ones are utilized as they remain functional. Modifications are made to the current separators and manifolds by cutting them with an acetylene/oxygen torch. Subsequently, a pipe segment is welded onto the cut section, and a flange is attached, from which the installation proceeds. These details are explicitly outlined in the bill of quantities.

- **Question no.2** – Fitting for the pre-insulated pipes for underground installation: Elbows, measuring plates for leakage, compensating pillow, fittings, and polyurethane foam are not specified, only the pipes are specified. Should we predict in the percentage of pipe size for fittings and other materials that are missing?

Answer: Since the project involves an existing building with pre-existing underground installations, it is impossible to predict the exact routing accurately. Therefore, the billing for this item is based on the construction log of completed works, using a



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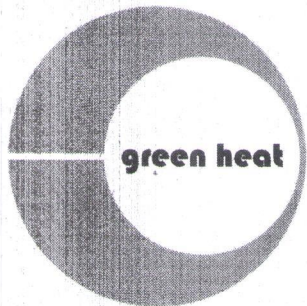


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2021.1

27.05. Questions and answers about the tender for installation of high-efficient alternative central heating system



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unit price per meter for the installed and tested pipe network, including all necessary components. The bidder is expected to understand the requirements for installing the pipe they are bidding on.

- **Question no.3** - For the steel pipes inside the engine room, sponge insulation plated with aluminum sheet metal isn't included in the specification, (only the upper part of the roof and the heat pumps). Do we have to include this topic in the specification?

Answer: The thermal insulation mounted outside is protected with an aluminum sheet mainly due to mechanical protection (so that birds and other animals do not damage it), while it is not mandatory to protect it inside the building.

- **Question no.4** - In the specification received on CD, photovoltaics is in the electrical phase. But, in the tender documentation downloaded from Јавни набавки - Општина Радовиш (radovis.gov.mk), they are not specified. Can you clarify this?

Answer: The CD given to site visitors contains the entire project for utilizing highly efficient alternative central heating systems. The specification for photovoltaics was the subject of procurement in a previously conducted procedure for public procurement and in this procedure (Procedure identifier: 443893c9-6574-4acf-b8d6-c9a1805cad39, Internal identifier: IPA/2021/427/964) they are not the subject of procurement. Please take into consideration only the specification that you have in the tender documentation published on the official website of the municipality of Radovish.

- **Question no.5** In the tender documentation itself in financial offer templates VOLUME 4.2.3 there are tables B) breakdown of basic supply price for materials and consumables and C) breakdown of basic hourly prices for equipment. In which positions do this item they refer to in the technical specification? Does it mean positions marking the route of an external pipe installation (Excavation of earth for a trench, placement of a layer of fine sand and construction of a concrete foundation). Please for additional explanation?



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Questions and answers about the tender for installation of high-efficient alternative central heating system

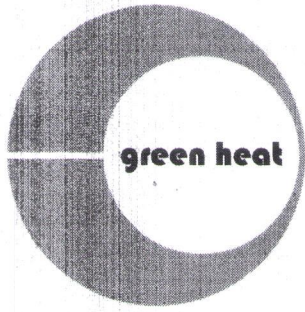
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Answer: The breakdown of the lump-sum price (Volume 4.2.3) is the itemized list of prices showing the build-up of the price in a lump-sum contract. The prices of the breakdown of the lump-sum price include all incidental and contingent expenses and all risks necessary to construct, complete and maintain all works in accordance with the contract. In the tables B and C you provide an overview of the prices for the purchase of materials, consumables and hourly prices for equipment, so you break down your offer and they do not refer to a specific item from the technical specification but to your entire offer for basic supply price for materials and consumables and basic hourly prices for equipment. This includes and the positions for marking the route of an external pipe installation (Excavation of earth for a trench, placement of a layer of fine sand and construction of a concrete foundation).

Spasija Efnuseva

Procurement committee Chairperson



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