



TECHNICAL ASSIGNMENT (SERVICES)

Title of the Technical Assignment for the procurement of the service:	<i>General Repair with the Delivery of Spare Parts of the Flottweg Two-Stage Decanter on the Dehydration Section</i>
Client (Block/Function):	<i>Waste Water Treatment Plant</i>

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Introduction

1. TECHNICAL ASSIGNMENT CLASSIFICATION

The Technical Assignment involves the procurement of a service with an IT component	No
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1.2.1 Technical Assignment for the service of performing the works (without the service of obtaining technical conditions, approvals and permits and development of technical documentation)	
For the implementation of the service in question, the Client is in possession of technical documentation:	yes
For the purpose of performing the relevant works, the Client has obtained:	1. A permit is required for the performance of relevant works.
The service in question defined in the Technical Assignment shall be carried out in accordance with the following principle:	2. In accordance with the precisely defined scope, unit prices, per unit of measure and payment by actual quantities.

2. SUBJECT MATTER OF THE TECHNICAL ASSIGNMENT AND LOCATION

The subject matter is the general repair of the Flottweg two-stage decanter on the dehydration section in the Waste Water Treatment Plant with the delivery of spare parts.

*Manufacturer: **FLOTWEG***

*Type: **Z 53 4/053 Manufacturer's serial number: 890536***

*Year of manufacture: **1989***

DESCRIPTION OF THE AS-IS STATE

The decanter is currently in a difficult functional condition. The Inspection and Control Service has measured the vibrations and identified impermissible and increased vibrations. The general repair is carried out for preventive reasons, in order to preserve technical parameters of the equipment and its reliability.

Prior to submitting the bid, the Bidder shall visit the location where the decanter is located and present, along with the tender documentation, a site visit confirmation, signed by the responsible person of the Client:	Yes.
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3. GENERAL PROVISIONS

In case of the exchange of confidential information or access to it, it is necessary to act in compliance with the internal acts which regulate the field of information confidentiality protection.

An assembly drawing of the decanter is attached to the Technical Assignment.

Designations of the drawing of the technical documentation:

- C2103,088,10 - Drive group
- C350.1003.00 - Decanter
- B2106.036.10 - Rotor

4. SCOPE OF THE SERVICE AND TECHNICAL DESCRIPTION

Performing the services of the general repair of the Flottweg two-stage decanter on the dehydration section in the Waste Water Treatment Plant. It is necessary to do the following:

1. *Dismantle the decanter*
2. *Prepare the Defect Check List after dismantling*
3. *After a detailed defect check, if defects are observed, it is necessary to repair defects in accordance with the approved technical requirements as well as with the technical documentation.*
4. *Replace the damaged parts of the decanter that the Contractor will deliver and install. The list of parts to be installed is given in the text as paragraph 16. LIST OF SPARE PARTS*
5. *Install the decanter assembly*
6. *Prepare a written report on the performed works*
7. *Make a list of necessary spare parts*
8. *The Contractor shall attend the vibrodiagnostic examination and testing.*
9. *The Contractor needs to attend the trial run of the decanter*
10. *The Contractor needs to provide a guarantee for the performed works*

5. CLIENT'S RIGHTS, OBLIGATIONS AND RESPONSIBILITIES

- *Appoint the Project Manager who will manage the project on behalf of the Client*
 - *Make available all the documentation in its possession necessary for the implementation of the service*
 - *Provide all available consulting support by its employees.*
 - *Ensure the use of the crane (motor crane), as well as the operator thereof*
1. *Provision of all auxiliary fluids (water, low pressure steam, etc.)*
 2. *Provision of all other conditions for the performance of works*
 3. *Provision of all conditions for trial run*

6. CONTRACTOR'S RIGHTS, OBLIGATIONS AND RESPONSIBILITIES

1. *Provision of the professional supervision over the works, as well as all the necessary personnel for direct works on the repair of the decanter*
2. *Provision of the necessary tools and accessories for dismantling and installation. Measuring devices shall have valid manufacturer's attests*
3. *All possible modifications shall be in accordance with the technical drawings and documentation. Technical changes are not the subject matter of the service.*
4. *The Contractor should have a strong cooperation with the workshop equipped with metal machining devices, milling lathes and a coordinating lathe.*
5. *Contractors must have valid medical certificates of fitness to work on the equipment repair works*
6. *Trial run and proof of the performance of the repaired equipment.*

7. BASIS FOR THE COMMENCEMENT OF THE SERVICE PROVISION

The expected (approximate) date of commencement of the service provision: 20/10/2025

8. SERVICE DELIVERY DEADLINE AND TIME SCHEDULE

1. *The deadline for the provision of services cannot exceed 15 calendar days from the date of the Contractor's taking possession of the site.*

In addition to the bid, the Bidder is obliged to submit a detailed time schedule in accordance with the required service delivery deadline. The time schedule must specify the duration of all activities and clearly indicate their interdependence (it does not relate to the specified services / other).

9. SERVICE QUALITY REQUIREMENTS AND QUALITY CONTROL METHOD

The Contractor must have the necessary experience in the maintenance of rotary equipment, as evidenced by the reference list submitted together with the bid. The Contractor has to keep records and fill in worksheets, the credibility of which is checked by the Client's supervision.

The quality of the service will be measured and proved by vibrodiagnostics before the repair and after the repair. This will be one of the ways to prove the quality of the performed service.

10. PERFORMED SERVICE ACCEPTANCE

Billing and payment requirement means the Record on the Performed Service signed both by the authorized representative of the Client and of the Contractor.

11. WARRANTY PERIOD

The warranty period for the performed services cannot be shorter than 12 months for the performed works.

The warranty period starts to run from the date of delivery of the performed service, i.e. from the day of signing the Record on the Performed Service.

The Contractor is obliged to eliminate all defects which are found to be its fault (in the complaint), upon the Client's request, within the warranty period.

12. TECHNICAL QUALIFICATION CRITERIA

Table 1 - Technical Qualification Criteria

No.	Technical qualification criteria (TQC)	Supporting documentation (shows compliance with the required TQC)
1.	The company providing the service in question must be registered with the Business Register as the company for performing activities that are the subject matter of procurement.	Attach the Excerpt from the Certificate of Incorporation If the Client intends to hire subcontractors for this job, it is necessary to provide a Certificate of Registration and a Business Cooperation Agreement (designated body)
2.	Work experience of at least 5 years in the maintenance of rotary equipment	Excerpt on Registration of the company and the reference list
3.	Qualification for the repair of rotary equipment for waste waters	Letter of support from the "FLOTTWEG" equipment manufacturer

13. PRICE - BILL OF QUANTITIES FOR MATERIALS AND WORKS

The following table shows the data that should be included in the Bill of Quantities for Materials and Works.

Table 2 - Information to be included in the Bill of Quantities for Materials and Works

BILL OF QUANTITIES FOR MATERIALS AND WORKS / SERVICE SPECIFICATION					
No.	Item description	Unit of measure	Quantity	Unit price	Total
1.	General repair of the Flottweg two-stage decanter	set	1		
Total:					

The Bidder cannot make any changes to the Bill of Quantities for Materials and Works.

The Bidder should not enter any unit price or total price in the Technical Assignment.

14. HSE

14.1 Determination of HSE risk level

Table 3 - List of services

No.	Services	Taxonomy code	Taxonomy description	Risk assessment (L, M, H)
1.	General repair of the Flottweg two-stage decanter Service code - 600001549	521314	Maintenance of other rotary equipment	M (moderate)

Final HSE risk level - refers to the subject matter of the procurement as a whole (leave only one of the said risks):

Moderate - M

14.2 Appointment of responsible persons in the process of "Contractor Management"

Directly responsible individual (DRI) shall be: **Goran Ostojić** Head of Rotary Equipment Department

The person in charge of coordination and control of enforcement of the provisions of the Agreement on Occupational Safety and Health, Environmental Protection and Fire Prevention in force in the Company, TFU - 328 of the Contract Document (HSE Officer) shall be: **Vladimir Stojšić**, OSH and IS Specialist.

15. APPROVAL OF THE TECHNICAL ASSIGNMENT

The Bidder shall submit a Statement, signed and stamped by an authorized person, confirming the acceptance of all terms and requirements set forth in the relevant Technical Assignment.

16. ADDITIONAL NOTES

Should the Bidder identify any deficiencies in the Technical Assignment and other tender documents, it shall inform thereof the contact persons indicated in the Invitation for Bids, before the expiry of the deadline for bids submission.

Table 4

LIST OF SPARE PARTS

No.	Технички опис	English Description	JM / Unit of measure	Quantity
1.	Маст за подмазивање лежајева	Bearing grease	kg	5
2.	V - Каиш	V-Belts	pcs	9
3.	Маст за кугличне лежајеве	Roller bearing grease	kg	4
4.	Ваљкасти лежај	Cylindrical roller bearing	pcs	1
5.	Ламелни прстен	Lamellar ring	pcs	1
6.	О- Прстен	O-ring	pcs	2
7.	О- Прстен	O-ring	pcs	3
8.	Заптивни прстен	Shaft seal ring	pcs	2
9.	Ламелни прстен	Lamellar ring	pcs	3
10.	Куглични лежај са жљебом	Grooved ball bearing	pcs	1
11.	Нилос прстен	Nilos ring	pcs	1
12.	О- Прстен	O-ring	pcs	1
13.	О- Прстен	O-ring	pcs	2
14.	Куглични лежај са жљебом	Grooved ball bearing	pcs	1
15.	Клизни прстен	Slip ring	pcs	2
16.	Куглични лежај са жљебом	Grooved ball bearing	pcs	1
17.	Заптивни прстен	Shaft seal ring	pcs	1
18.	Стругач	Scraper strip	pcs	2
19.	Уље за мењаче	Gear oil	lit	3

17. **APPROVERS - DiNIS**

Table - Approvers of the Technical Assignment

Responsible persons	Name and surname
Author of the Technical Assignment:	Goran Ostojić
Project Manager:	Goran Ostojić
Responsible person for the WP	Pavle Radoičić
Responsible HSE Officer	Vladimir Stefanović