

**VOLUME 4**

**SCHEDULES**

**BREAKDOWN OF THE OVERALL PRICE**

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## VOLUME 4 – SECTION 4.1

### 4.1 BREAKDOWN OF THE OVERALL PRICE

#### 4.1.1 General

Payment of all items except Dayworks will be made on a lump-sum basis in accordance with Clause 13.6 of the Conditions of Contract. The item descriptions given in the breakdown in no way limit the Contractor's obligations under the contract to provide all the works described elsewhere.

All items must be priced in euro.

The tender price must not include taxes, customs and import duties that are levied in accordance with the laws and regulations of the state of the Beneficiary on the production, manufacture, sale and transport of the Contractor's plant, machinery, materials and supplies to be used on or furnished under the contract.

This information should be provided separately in the Breakdown of the Overall Price.

Notwithstanding any limits which may be implied by the wording of individual items, the Contractor accepts that the amounts entered in the Breakdown of the Overall Price are works that are complete in every respect.

For each item the Tenderer must input a lump sum (LS) which will be deemed to have taken full account of all requirements and obligations, whether expressed or implied, covered by all parts of this contract and to have priced the items herein accordingly. The amount must therefore include for all incidental and contingent expenses and risks of every kind necessary to construct, complete and maintain the whole of the works in accordance with the contract. Unless separate items are provided in the breakdown, rates and sums include all costs involved in the various items in the breakdown.

Where a provisional sum (PS) has been entered, the amount indicated shall not be changed by the Tenderer.

The amounts entered by the Contractor against all items in the breakdown must accurately reflect the cost of carrying out the work described in the contract. All costs, commissions and other charges (unless separately itemised) applicable to the contract as a whole must be spread across all amounts in the breakdown, whereas those applicable to specific sections of the contract are to be spread only over the items to which those sections refer.

The amounts entered in this schedule will be used for calculating payments and interim payments and for valuing variations.

Schedule 4 includes Contingencies for use when works are to be executed on a daywork basis. Works may not be executed as daywork other than by order of the Contracting Authority's and in accordance with the terms of the Contract.

#### 4.1.2 Breakdown of Tender Price

<b>Schedule 1 – General Items</b>		
<b>Item</b>	<b>Description</b>	<b>Amount EUR</b>
1.1	Performance and other bank Guarantees, Insurances, taxes, etc	
1.2	Site Mobilisation, including Contractor's and Engineer's offices, furniture, equipment, compound, transportation, temporary fencing, etc, electrical, water, telephone, internet, maintenance and security during Contract period and dismantling of site offices at end of Contract etc.	
1.3	Surveys (Topographical, Geotechnical), preparation of drawings of the Works for WWTP (to Supervisor's and others approval and including cost for Technical control)	
1.4	Preparation of Preliminary and/ or Main design and shop drawings for the Works for the Subotica RWMC (to Engineer's and others approval , including costs for technical control and other reviews and approvals needed)	
1.5	Preparation of documentation in English and Serbian for Building Permit and other approvals	
1.6	Quality Assurance, Health, Safety and Environmental Protection, EMP-SSIP and monitoring during construction period	
1.7	Operation and Maintenance Manuals in English and Serbian Language	
1.8	As-Built Drawings and As- Built Designs	
1.9	Training	
1.10	Connection to local utilities with corresponding taxes	
1.11	Start up, Commissioning, Tests on Completion and Trial Operation Period, taxes and documentation for Technical Acceptance	
1.12	Attendance during Defects Liability Period + Testing period for a total cumulative duration of 6 months according to RS regulations	
1.13	Visibility	
1.14	2 vehicles (1 personnel and 1 four wheels drive)for the Engineer , petrol and maintenance of the vehicles during construction and DNP period	
1.15	Spare part	
1.16	EMP-SSIP - monitoring during construction period	
1.17	Other general items (to be entered by the Tenderer)	
<b>Total Schedule 1 to Main Summary of Tender Price</b>		

**Schedule 2 – Construction of working area plateaux**

Item	Description	Amount EUR
2.1	Site clearance - sheering of bushes and plants from the site area	
2.2	Earthworks - Excavation of material	
2.3	Earthworks - Backfilling with material: construction of embankments, including protection of embankment and slopes.	
2.4	Transportation of surplus excavated material to the temporary repository (mean distance of transport about 500 m).	
2.5	Protection "green" area around working area.	
2.6	Concrete works	
2.7	Other works and installations	
<b>Total Schedule 2 to Main Summary of Tender Price</b>		

**Schedule 3 – Internal roads and parking lots**

Item	Description	Amount EUR
3.1	Earthworks - Excavation of material	
3.2	Earthworks - Backfilling with material: construction of embankments, including protection of embracement and slopes.	
3.3	Civil works	
3.4	Horizontal and vertical traffic signalization	
3.5	Connections to the existing road (east and south)	
3.6	Transportation of surplus excavated material to the temporary repository (mean distance of transport about 500 m).	
3.7	Transportation of excavated unsuitable material (if any ) to the temporary repository (not to be deposit on the landfill )	
3.8	Recycling yards with canopy and platform	
<b>Total Schedule 3 to Main Summary of Tender Price</b>		

**Schedule 4 – Guard House**

Item	Description	Amount EUR
4.1	Civil and earth works	
4.2	Construction works	
4.3	Other works (installations, heating & cooling etc)	
4.4	Furniture and equipment for perimeter monitoring (CCTV system, without the cameras)	
<b>Total Schedule 4 to Main Summary of Tender Price</b>		

<b>Schedule 5 – Roofed Weighbridge</b>		
<b>Item</b>	<b>Description</b>	<b>Amount EUR</b>
5.1	Civil and earth works	
5.2	Construction works	
5.3	Other (installations, heating & cooling etc)	
5.4	Equipment (1 weighbridge, mechanical and electrical equipment, control room)	
<b>Total Schedule 5 to Main Summary of Tender Price</b>		

<b>Schedule 6 – Wheel wash facility</b>		
<b>Item</b>	<b>Description</b>	<b>Amount EUR</b>
6.1	Civil and earth works	
6.2	Construction works	
6.3	Equipment (tanks, pumps etc)	
<b>Total Schedule 6 to Main Summary of Tender Price</b>		

<b>Schedule 7 –Administration building</b>		
<b>Item</b>	<b>Description</b>	<b>Amount EUR</b>
7.1	Civil and earth works	
7.2	Construction works	
7.3	Other (installations, heating & cooling etc)	
7.4	Laboratory equipment	
7.5	Hardware and software for the SCADA system (input/output signals from/to landfill gas treatment facility, waste water treatment plant, leachate recirculation system from the sensors incorporated into the landfill and from the monitoring station)	
7.6	Furniture, telephones, computers	
<b>Total Schedule 7 to Main Summary of Tender Price</b>		

**Schedule 8 –RWMC Service centre**

Item	Description	Amount EUR
8.1	Service workshop - civil and earth woks	
8.2	Service workshop - construction works	
8.3	Service workshop- other (installations, etc)	
8.4	Truck wash facility - civil and earth woks	
8.5	Truck wash facility - construction works	
8.6	Truck wash facility - other (installations, equipment, spare parts etc)	
8.7	Truck covered parking lot with service ramp	
8.9	All other building and constructions (hangars for hazardous and secondary row materials, etc)	
<b>Total Schedule 8 to Main Summary of Tender Price</b>		

**Schedule 9 - Landfill cells**

Item	Description	Amount
9.1	Site clearance - shearing of bushes and plants from landfill cells Phase 1	
9.2	Earthworks - Excavation of material from landfill cells Phase 1	
9.3	Earthworks - Backfilling with material: construction of embankments, including protection of embankment and slopes for landfill cells Phase 1	
9.4	Transportation of surplus excavated material to the temporary repository (transport distance about 500 m) from landfill cells Phase 1	
9.5	Bottom sealing layer - landfill cells Phase 1	
9.6	Leachate collection pipeline, including leachate monitoring shafts - landfill cells Phase 1	
9.7	Pumping well – equipment (valves, pumps, level switches etc)	
9.8	Rainfall collecting from landfill cells Phase 1	
9.9	Construction of temporary gas probes on the landfill cells Phase 1	
9.10	Construction of connecting gas pipeline, including containers for collection of condensate and condensate pipeline.	
9.11	Supply of HDPE pipes for connecting of gas wells, including final gas probe, valves and all necessary fittings.	
9.12	Protection "green" area around landfill area including excavation, backfilling and landscaping	
9.13	Other works and installations	
<b>Total Schedule 9 to Main Summary of Tender Price</b>		

<b>Schedule 10 – Leachate Collection and Treatment</b>		
<b>Item</b>	<b>Description</b>	<b>Amount</b>
10.1	Construction of leachate transport piping from landfill to leachate treatment plant	
10.2	Construction of leachate aeration lagoon and sedimentation lagoon civil works (excavations, HDPE membrane and protection), etc.	
10.3	Installation of aerators and connection to power supply and controls.	
10.4	Sludge pumping station, complete with piping and valves and pipeline, for the recirculation of biological sludge back to the landfill.	
10.5	Construction of treated leachate collection reservoir, including pumping well for flow regulation of recirculation of leachate to the landfill.	
10.6	Pumping stations for recirculation of treated leachate and sludge into the landfill.	
10.7	Regulation equipment for the recirculation of treated leachate and sludge to the landfill	
10.8	Construction of treated leachate and sludge recirculation connecting pipelines, including shafts for distribution of water and sludge into the landfill body, valves and other fittings	
10.9	Supply of full and perforated pipes for the recirculation of treated leachate into the landfill body, including all necessary fittings	
10.10	Supply the leachate treatment plant for residual leachate (for the leachate which is not need for recirculation)	
<b>Total Schedule 10 to Main Summary of Tender Price</b>		

<b>Schedule 11 – Landfill gas treatment facility</b>		
<b>Item</b>	<b>Description</b>	<b>Amount EUR</b>
11.1	Civil and earth works for gas well foundations and out of landfill body buried horizontal gas piping	
11.2	Construction works for gas wells and out of landfill body buried horizontal gas piping	
11.3	Gas flare (18 – 30 % CH <sub>4</sub> , 50 – 500 Nm <sup>3</sup> /h), including containers for collection of condensate and all necessary pipes and auxilliary equipment.	
<b>Total Schedule 11 to Main Summary of Tender Price</b>		



**Schedule 12 – Waste water treatment plant**

Item	Description	Amount EUR
12.1	Sanitary-technological waste water collection shaft – civil, earth and construction works	
12.2	Sanitary-technological waste water collection shaft – equipment (pumps, level switches etc)	
12.3	Technological waste water collection shaft (MRF waste water) – civil, earth and construction works	
12.4	Technological waste water collection shaft (MRF waste water) – equipment (pumps, level switches etc)	
12.5	WWTP plant SBR type	
12.6	Construction of the pump station and discharge pipeline to the recipient	
<b>Total Schedule 12 to Main Summary of Tender Price</b>		

**Schedule 13 – Transformer stations and auxilliary power**

Item	Description	Amount EUR
13.1	Civil and earth works	
13.2	supply cable according to design	
13.3	Electrical installations and equipment	
13.4	Emergency diesel generator	
<b>Total Schedule 13 to Main Summary of Tender Price</b>		

**Schedule 14 – Infrastructure**

Item	Description	Amount EUR
14.1	Electric network, including concrete channels for cabling	
14.2	Lighting of the roads and working areas	
14.3	Central earthing system	
14.4	CCTV system (cameras accompanied equipment)	
14.5	Distributive telecommunication network	
14.6	Sanitary water supply network ( wells, tank for technical water)	
14.7	Hydrants– industrial water network and fire protection system	
14.8	Sanitary and industrial sewage	
14.9	Storm water sewage	
14.10	Grease and oil separators- separators for light liquids with coalescent and absorption filters with capacity of 400l/sec	
<b>Total Schedule 14 to Main Summary of Tender Price</b>		

Schedule 15 – Fence and entrance gates		
Item	Description	Amount EUR
15.1	Fence – min. 2,00 m high	
15.2	Entrance gates	
Total Schedule 15 to Main Summary of Tender Price		

Schedule 16 – MRF: Process and Mechanical installations		
Item	Description	Amount EUR
16.1	Mechanical Separation Plant, including bag shredders, screens, separators, conveyor belts, hand selection chamber, forklift telehandler trucks, mechanical shovels, recyclables and residuals presses, containers, 1000 kg scales, etc.,. complete and ready for operation	
16.2	Ventilation and air conditioning of sorting cabin	
16.3	Electrical installations	
16.4	Instrumentation and control system	
16.5	Utilities	
16.6	Ancillary equipment and deliverables	
16.7	Transport for process/mechanical equipment to site	
16.8	Installation	
Total Schedule 16 to Main Summary of Tender Price		

Schedule 17 – MRF: Civil and building works		
Item	Description	Amount EUR
17.1	Earthworks	
17.2	Halls, including foundations	
17.3	Infrastructure (water supply, sewage disposal, storm water disposal, pathways, etc.)	
Total Schedule 17 to Main Summary of Tender Price		

**Schedule 18 – MRF: Building installations**

Item	Description	Amount EUR
18.1	Ventilation-works (for Total MRF Plant)	
18.2	Building electrical works and site lighting	
<b>Total Schedule 18 to Main Summary of Tender Price</b>		

**Schedule 19 – Composting: Process and Mechanical installations**

Item	Description	Amount EUR
19.1	Composting Plant, including shredder, windrow turning machine, front end loader, mechanical shovel, rotary sieve, humidifying equipment, loading conveyor, etc, complete ready for operation, etc.	
19.2	Electrical installations	
19.3	Instrumentation and control system	
19.4	Utilities	
19.5	Ancillary equipment and deliverables	
19.6	Transport for process/mechanical equipment to site	
19.7	Installation	
<b>Total Schedule 19 to Main Summary of Tender Price</b>		

**Schedule 20 – Composting: Civil and building works**

Item	Description	Amount EUR
20.1	Earthworks	
20.2	Canopy and base	
20.3	Infrastructure (water supply, sewage disposal, storm water disposal, pathways, lagoons, etc.)	
<b>Total Schedule 20 to Main Summary of Tender Price</b>		

**Schedule 21 – Composting: Building installations**

Item	Description	Amount EUR
21.1	Canopy electrical works and site lighting	
<b>Total Schedule 21 to Main Summary of Tender Price</b>		

<b>Schedule 22 – RWMC Operation Mobile Equipment, special containers and other equipment</b>		
<b>Item</b>	<b>Description</b>	<b>Amount EUR</b>
22.1	Bulldozer	
22.2	Compactor	
22.3	Tipper truck	
22.4	Truck lifter	
22.5	Roll arm tipper	
22.6	Cars, caravane type	
22.7	Mechanical shovel	
22.8	Metal containers 5 m <sup>3</sup>	
22.9	Metal containers 1.1 m <sup>3</sup>	
22.10	Wire containers	
22.11	Special Containers	
<b>Total Schedule 22 to Main Summary of Tender Price</b>		

<b>Schedule 23 –Monitoring</b>		
<b>Item</b>	<b>Description</b>	<b>Amount EUR</b>
23.1	Monitoring system for ground waters	
23.2	Monitoring system for landfill gas	
23.3	Monitoring system for landfill body settlement	
23.4	Leachate monitoring	
<b>Total Schedule 23 to Main Summary of Tender Price</b>		

<b>Schedule 24 – diesel station</b>		
<b>Item</b>	<b>Description</b>	<b>Amount EUR</b>
24.1	Steel fuel tank (25 m <sup>3</sup> ) with automatic device for pouring diesell into vehicles	
24.2	Civil, earth and construction work	
<b>Total Schedule 24 to Main Summary of Tender Price</b>		

**Schedule 25- Dayworks and Provisional Sums**

Item	Description	Unit	Qty)	Rate EUR	Amount EUR
<b>25</b>	<b>Dayworks</b>				
<b>25.1</b>	<b>Labour</b>				
25.1.1	Process Engineer	hours	50		
25.1.2	Mechanical Engineer	hours	50		
25.1.3	Civil Engineer	hours	100		
25.1.4	Electrical Engineer	hours	50		
25.1.5	Automation Engineer (Programmer)	hours	50		
25.1.6	Site Supervisor	hours	100		
25.1.7	Surveyor	hours	100		
25.1.8	Technician	hours	100		
25.1.9	Working ganger	hours	100		
25.1.10	Equipment operator	hours	100		
25.1.11	Mechanical fitter		100		
25.1.12	Electrician	hours	100		
25.1.13	Other Skilled Workers (Carpenters etc)	hours	200		
25.1.14	Labourer	hours	400		
25.1.15	Driver	hours	200		
25.1.16	CAD-operator	hours	100		
		hours			
<b>25.2</b>	<b>Equipment (with operator)</b>				
25.2.1	10T Mobile crane	hours	50		
25.2.2	10T Tower crane	hours	50		
25.2.3	Concrete mixer lorry, 6 m <sup>3</sup>	hours	50		
25.2.4	Concrete pump, 30 m <sup>3</sup> /hr	hours	50		
25.2.5	Batching plant, 60 m <sup>3</sup> /hr	hours			
25.2.6	Dewatering Equipment	hours	100		
25.2.7	Self propelled Sheeps Foot Compactor	hours	50		
25.2.8	100 kw Grader	hours	50		
25.2.9	Dump truck 15 tonne	hours	50		
25.2.10	Van / pick-up truck, 2 tonne	hours	50		
25.2.11	Front-end loader, 2 m <sup>3</sup> bucket	hours	50		
25.2.12	Excavator, 1 m <sup>3</sup> bucket	hours	100		
25.2.13	Excavator, 0.3 m <sup>3</sup> bucket	hours	100		
25.2.14	Compressor with standard tools, 10 cu.m /min	hours	300		
25.2.15	Pump, 75 mm suction hose	hours	200		
25.2.16	Generator set, 15 kVA	hours	100		
<b>25.3</b>	<b>Materials</b>				
25.3.1	Provisional sum for net price of materials net			LS	50,000
25.3.2	Percentage addition to Dayworks Materials- 10%			LS	5,000
<b>Total Dayworks and Provisional Sums NOT for Main Summary</b>					

### 4.1.3 Main Summary - Recapitulation

#### Main Summary of Tender Price

Schedule No	Description	Amount EUR
1	General Items	
2	Construction of working area plateaux	
3	Internal roads and parking lots	
4	Guard House	
5	Roofed Weight Bridge	
6	Wheel wash facility	
7	Administration building	
8	RWMC Service centre	
9	Landfill cells	
10	Leachate Collection and Treatment	
11	Landfill gas treatment facility	
12	Waste water treatment plant	
13	Transformer stations and auxilliary power	
14	Infrastructure	
15	Fence and entrance gates	
16	MRF: Process and Mechanical installations	
17	MRF: Civil and building works	
18	MRF: Building installations	
19	Composting: Process and Mechanical installations	
20	Composting: Civil and building works	
21	Composting: Building installations	
22	RWMC Operation Mobile Equipment and special containers	
23	Monitoring	
24	Diesel station	
<b>A</b>	<b>COST OF THE WORKS</b> (Sum of schedules 1-24)	
<b>B</b>	<b>Contingency, 10 % of the Cost of the Works**</b> (Not including Schedule 1)	
<b>TENDER PRICE (A + B )</b>		<b>(*)</b>

\*To be carried forward to Tender Form

\*\* The use of contingency is subject to a formal approval by the Contracting Authority