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**REPUBLIC OF SERBIA**  
**Ministry of Infrastructures**



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**EU Delegation to the Republic of Serbia**



**Tender Dossier**

**VOLUME 4**

**Survey and Removal of Unexploded  
Ordnance (UXO) from the Danube River  
(PRAHOVO Section)**

**November 2010**

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# **VOLUME 4.2**

## **FINANCIAL OFFER TEMPLATES**

### **LUMP SUM CONTRACTS**

**4.2.1 – Introduction**

**4.2.2 – Recapitulation**

**4.2.3 - Breakdown of the Lump-sum Price**

**4.2.5 - Detailed Breakdown of Prices**



## VOLUME 4.2.1 – INTRODUCTION

### 1. **General**

1.1 The Breakdown of the Lump-sum Price (Volume 4.2.3) is the itemised list of prices showing the build-up of the price in a lump sum contract. This Breakdown of the Lump-sum Price does not derogate in any way to the clause according to which, in a lump-sum contract, the total contract price remains fixed irrespective of the quantities of work actually carried out.

The amounts due shall be determined by the tranches specified in article 49(1) of the Special Conditions.

1.2 The Detailed Breakdown of Prices (Volume 4.2.5) is the list which contains the basic costs, net costs and mark-ups, from which each price on the Breakdown of the Lump-sum Price. The Detailed Breakdown of Prices does not derogate in any way to the clause according to which, in a lump-sum contract, the total contract price remains fixed irrespective of the quantities of work actually carried out.

The Detailed Breakdown of Prices provides the coefficients for the application of the price revision formula referred to in article 48.2 of the Special Conditions and can provide the basis for valuation of additional work ordered referred to in article 37.5 of the Special Conditions.

### 2. **Specific for Volumes 4.2.2, and 4.2.3**

2.1 The item description given in the Breakdown of the Lump-sum Price in no way limits the Contractor's obligations under the contract to provide all the works described elsewhere.

2.2 The prices of the Breakdown of the Lump-sum Price include 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 of the Lump-sum Price, prices include all costs involved in the various items of the Breakdown.

2.3 The prices do not include the taxes and fiscal duties, whose exoneration is explicitly given for the contract. The non-exonerated taxes and fiscal duties are, apart from those which are stated separately in these financial offer Templates, covered in the Lump-sum Price of the contract and in the various prices of the Breakdown of the Lump-sum Price.



**VOLUME 4.2.2 – RECAPITULATION**

<b>Description</b>	<b>Amount EUR/local currency</b>
Total of lump-sum price	
<b>TOTAL PRICE</b>	



## **VOLUME 4.2.3 – BREAKDOWN OF THE LUMP-SUM PRICE**



Item. No.	Port Prahovo (km 858.00 - km 859.20) Item Description	Un.	Quantity	Unit rate in Euro	Amount in Euro
<b>BILL N° 1</b>					
<b>P1</b>	<b>ALL-INCLUSIVE PRICE FOR INDEFINITE QUANTITY OF UXO</b>				
P1.1.	<p>Mobilization, insurance of works, obtaining required accreditation, license, permits and approvals from relevant institutions and authorities</p> <p>Preparation of SOP, Quality Assurance Plan, EU visibility regulations.</p> <p>General survey with large loop detector for the roads access and all areas (tracks, base camp, workplace, etc.) for cluster-bombs clearance all around the site between riverbanks and land. These access roads, tracks, and all areas cleared will be marked with plastic bags and maintained in perfect conditions.</p> <p>Establishment site facilities (offshore &amp; onshore) site office, operation and maintenance, preventive measures, visitor reporting briefing area, information boards, etc.</p> <p>NOTE: execution period for these works require two summer working seasons (maximum 18 calendar months from commencement order until provisional acceptance).</p> <p><b>Survey of the wet river surface (6m depth)</b> execution of survey 240,000 m<sup>2</sup> and excavation between 0/2 m depth in the riverbed soil</p> <p><b>Survey of river banks (6m depth)</b> execution of survey 7,000 m<sup>2</sup> and extraction of the targets.</p> <p>UXO &amp; Explosives storage.</p> <p>Partial Provisional Acceptance, sampling, testing and verification of survey and clearance works</p> <p>Reporting and final approval</p>	LS	1		
P1.2.	<p><b>PRICE BREAKDOWN for UXO Removal &amp; disposal.</b></p> <p>UXO Removal with heavy equipments in the riverbed:</p> <p>extraction between 2/6 m depth in the riverbed soil (with heavy equipments and deep building method) and including</p> <p>5 identified UXO removal between 2/6 m depth in the riverbed soil</p> <p>Transport from UXO site to disposal site (48km)</p> <p>Destruction of UXO at disposal site (indefinite quantity but estimated 5):</p>	<p>Nos</p> <p>km</p> <p>Nos</p>	<p>47</p> <p>48</p> <p>5</p>		
<b>P1</b>		LS	1		



Item. No.	Port Prahovo (km 858.00 - km 859.20) Item Description	Un.	Quantity	Unit rate in Euro	Amount in Euro
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**SUMMARY OF BILLS:**

TOTAL BILL N° 1

TENDER PRICE BILL N°1

CONTINGENCIES

5%

TENDER PRICE (inclusive of  
contingencies)

### VOLUME 4.2.5 – DETAILED BREAKDOWN OF PRICES

The attached lists A-F of "Breakdown of the basic prices" is just indicative for typical works contracts. For this special UXO removal works contract each bidder is obliged to submit his "Detailed breakdown of prices", containing at least the following categories:

<b>A</b>	<b>EQUIPMENT</b>
<b>A1</b>	<b>Boats</b>
A1.1	Motor Boat
A1.2	Diving boat
A1.3	Rubber boat
<b>A2</b>	<b>Cranes</b>
A2.1	Pontoon mounted crane (miminum loading capacity: 10 tons)
A2.2	Onshore crane (minimum loading capacity: 10 tons)
<b>A3</b>	<b>Jet - pump</b>
<b>A4</b>	<b>Transport</b>
A4.1	Truck
A4.2	Van
A4.3	Car
<b>A5</b>	<b>Flame cutting equipment</b>
A5.1	Onshore and offshore above water
A5.2	Offshore below water
<b>A6</b>	<b>Echo - sounding equipment</b>
A6.1	Side Scan sonar
A6.2	Outboard Sonar Search System
A6.3	Remotely Operated vehicle (ROV)
A6.4	Unmanned Under water Vehicle (UUV)
<b>A7</b>	<b>Magnetic Survey Equipment</b>
<b>A8</b>	<b>Under water Ordnance Locator</b>
<b>A9</b>	<b>Land Ordnance Locator</b>
<b>A10</b>	<b>EOD Equipment</b>
A10.1	Stand off techniques equipment





A10.2	Explosive/impact Fuse wrench
A10.3	EOD hand tools
A10.4	Fuse immunization equipment
A10.4	Radiographic Equipment
<b>A11</b>	<b>Diving Equipment</b>
A11.1	Self Contained Under water Breathing Apparatus (SCUBA)
A11.2	Surface Supplied Diving Systems
A11.3	Under Water Communication System
A11.4	Compressors (min. 200 bar)
A11.5	Underwater light system
A11.6	Hand Held Sonar
A11.7	Lifting Bag System
A11.8	Generators
<b>A12</b>	<b>Protective means</b>
<b>B</b>	<b>MATERIAL</b>
B1	Gas for cutting
B2	Oxygen
B3	Electrodes for cutting equipment
B4	Steel ropes ø 30 mm, including accessories
<b>C</b>	<b>LABOUR</b>
C1	EOD Team Leader, IMAS level 4
C2	EOD Operator, IMAS level 3
C3	EOD Operator, IMAS level 2
C4	EOD Operator, IMAS level 1
C5	Paramedic - health and safety
C6	Diving team
C7	Skilled workers



**A) Breakdown of the basic prices for labour**  
**(converted into local currency or €/hour)**

N°	Qualification	Monthly pay (1)	Hourly pay (2)	Overtime (3)	Soc. security contributions (4)	Travel time (5)	Hourly total (6)
A1	Labourer, Cat 1						
A2	Skilled worker, Cat. 3						
A3	Skilled worker, Cat. 5						
A4	Foreman, Cat. 7						
A5	Site manager						
A6	HGV driver						
A7	Heavy plant driver						
A8	Clerk of works						
A9	Mechanic, Cat. 7						
A9	Land surveyor						
A10	Planning draughtsman						
A11	...						

The above list is given by way of example and is not exhaustive.

- (1) Salary if the employee is paid monthly.
- (2) Hourly pay if the employee is paid hourly, otherwise monthly salary divided by the legal working hours (... hours/month).
- (3) Average cost of overtime, i.e. hourly pay times the overtime coefficient.  
Average coefficient to be applied to the salary to take account of overtime..... (= total gross salary/gross salary without overtime).
- (4) Percentage of the social security contributions (including social welfare, leave, etc.) times the gross salary (this percentage may vary according to the category of employee).
- (5) Average monthly or daily travel time divided by the number of daily or monthly legal working hours.
- (6) = (2) + (3) + (4) + (5).

Done at .....

The tenderer (signature)



**B) Breakdown of basic supply prices for materials and consumables**  
**(in local currency or €/unit)**

N°	Description	Unit	Origin (1)	Unit price origin (2)	Transport to site (3)	Tax, duties and other charges (4)	Losses		Total (6)
							%	Value (5)	
C1	Gasoil	L							
C2	Aggregates for concrete	m <sup>3</sup>							
C3	Sand for concrete 2/4	m <sup>3</sup>							
C4	Cement	T							
C5	Steel for reinforced concrete	Kg							
C6	Annealed wire	Kg							
C7	Timber formwork	m <sup>2</sup>							
C8	Plywood	m <sup>2</sup>							
C9	Plasticisers	Kg							
C10	Concrete coating	Kg							
C11	Asphalt concrete	T							
C13	Inspection ladders	U							
C14	Fencing	ml							
C15	Traffic signs	U							
C16	...								

This list is not exhaustive.

- (1) Geographical location of the supplier or quarry.
- (2) Supply or cost price at the quarry or on delivery in the country.
- (3) Cost price of transport from the quarry or delivery in the country to the site.
- (4) To be borne by the firm.
- (5) Any losses or breakages to be determined by the tenderer.
- (6) Basic prices for supply of materials: (6) = (2) + (3) + (4) + (5).



Done at .....

The tenderer (signature)

**C) Breakdown of basic hourly prices for equipment**  
**(in local currency or €/hour)**

N°	Description	Purchase date of equipment	Replacement value (RV) (1)	Duties Taxes (2)	RV + taxes (3)	nb days useful life (4)	Depreciation /day (5)	Fuel cost/day (6)	Lubricant cost/day (7)	Spare parts (SP) cost /day (8)	Lubricant & SP taxes/day (9)	Labour cost/day (10)	Total /day (11)	Average daily working time (12)	Total /hour (13)
B1	D8N bulldozer														
B2	14G grader														
B3	CAT-type crawler excavator														
B4	CAT wheeled excavator														
B5	Trencher type...														
B5	Pump														
B6	Concrete vibrating poker														
B7	...														

(1) Estimated purchase price (excl. tax) of a piece of equipment of same kind, but new, purchased in the country's capital at the end of machine life span.

(2) Duties and taxes charged to the contractor at the purchase date.

(3) = (1)+(2)

(4) Number of depreciation years by number of days worked per year.

(5) Daily depreciation = (3)/(4).

(6) Average daily fuel consumption; the cost of the fuel is given with tax.

(7) Daily cost of lubricants (excl. tax).

(8) Daily cost of spare parts (excl. tax).

(9) Duties and taxes charged to the contractor on lubricants and spare parts

(10) Manpower price (man/day).

(11) Daily basic prices of piece of equipment = (5)+(6)+(7)+(8)+(9)+(10).

(12) Hours of operations (average)

(13) Hourly operational price of piece of equipment = (11)/(12)

Done at .....

The Tenderer (signature)



**D) Breakdown of unit prices in the price schedule**  
**(in local currency or €)**

N° of the unit price:

Output per day: m<sup>3</sup>/day

Designation of the unit price:

Quantities foreseen:

COMPONENTS OF THE PRICE EQUIPMENT, SUPPLIES AND SUBCONTRACTED WORKS  DESIGNATION	Quantity or time using h/day (Q)	U	EQUIPMENT				LABOUR		TOTALS €/day
			DEPRECIATION €/h (1)	MAINTENANCE €/h (2)	FUEL- LUBRICANTS €/h (3)	TOTAL €/day Qx(1+2+3)	Unit price	TOTAL €/day	
EQUIPMENT		h							
		h							
MATERIALS									
		h							
LABOUR		h							
		h							
				TOTAL €/day					
				Net cost €/m <sup>3</sup>					



**E) Detailed breakdown of site costs (Fc)**  
**(in local currency or €)**

Means deployed	Number (1)	Basic price (2)	Total net cost (3)=(1)+(2)
<b>Labour</b>			
A1 Site supervisor			
A2 Engineer			
A3 Clerk of works			
A4 Secretary			
A5 Drivers			
A6 Orderlies			
A7...			
Subtotal labour			
<b>Equipment</b>			
B1 4x4 vehicle			
B2 Saloon car			
B3 Van-type people carrier			
B4...			
Subtotal equipment			
<b>Materials</b>			
C1 Gasoil			
C2...			
Subtotal materials			
<b>Other</b>			
D1 Rentals			
D2 Telephone			
D3...			
Subtotal other			
<b>GENERAL TOTAL</b>			



**F) Detailed breakdown of the general costs (Fg)**  
**(general overheads and profits)**

n°		% of the bid
1	Financial charges	
2	Insurance premiums	
3	Guarantee costs	
4	Price revision	
5	Direct taxes	
6	Other expenses	
7	Penalties	
8	Contingencies	
9	Office and agency expenses	
10	Net profits	
11	Corporation taxes	
<b>GENERAL TOTAL</b>		

1. Financial charges are expenses incurred outside the production process as such (project start-up, overdrafts, etc.).
2. Insurance is the insurance described in Article 14 of the General Conditions for works contracts.
3. Guarantee costs are the bank charges for issuing the guarantee (advance, performance, retention guarantee, etc.).
4. The firm may or may not make provision under this heading, depending on its judgment concerning the quality of the price revision formula.
5. This involves VAT in the country of works, customs duties on the imported materials, etc.
7. If the firm thinks there may be a delay in the works, it will be able take out cover against it.
8. Contingencies here are related to uncertainties concerning tender documents, lack of knowledge of the country, etc.
9. General and administrative expenses are made up of the firm's fixed overheads such as accounts and quality control, management, various departments and office buildings and are common to all the firm's works contracts. Agency expenses are expenses common to all the works in the agency's area of responsibility.
11. These are taxes paid in the country of the works or in the country where the firm has its place of business (in the case of an international company).

