

TABLE OF PRICE			
No.	PART	Amount (USD)	Mark
I	CONSTRUCTION FEE	316,215,575	
1	Architectural Works	3,792,366	P1-P9
2	Substructure Works	27,858,545	P10-P19
3	Superstructure	86,887,921	P20-P31
4	Bridge, Culvert and Underpass	23,901,589	P32-P34
5	Access Road and Road detour	5,878,175	P35-P36
6	Drainage Works	1,599,950	P37-P38
7	Overhead contact system	23,240,661	P39-P57
8	Electrical Traction Substation - EVP, PSN, PS	5,845,392	P58-P68
9	Power Supply	4,336,518	P69-P72
10	Signaling System	57,919,405	P73-P109
11	Telecommunication	62,195,448	P110-P173
12	Thermotechnical Installations & Fire Suppression	709,811	P174-P176
13	Platforms and Lifts	474,216	P177
14	Roads Traffic Signalization and Equipment	464,119	P178-P179
15	Landscaping ,planning of platform and environment measures	11,111,458	P180-P181
II	Temporary and Transition works	23,442,089	P182-P185
III	DESIGN FEE	10,504,876	3% of the contract amount
1	Design Fee(PGD)	5,252,438	
2	Design Fee(PZI)	5,252,438	
	TOTAL:	350,162,540	

1 Architectural Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
A Renovation for control post for signalling and telecommunication equipment in New Belgrade station							
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	37,017.33	37,017.33	1/1
2	Decoration works	Including aluminium,steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,steel works,tinsmith,ceramic,flooring and other decoration of the building	1	79,285.97	79,285.97	1/1
B Architecture of the pedestrian underpass in the Tosin bunar stopping place							
1	Architecture of the pedestrian underpass in the Tosin bunar stopping place		Completion of decoration of the pedestrian underpass in the Tosin bunar stopping place	1	58,348.88	58,348.88	1/2
C Building for Zemun railway station							
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	142,305.22	142,305.22	1/3
2	Decoration works	Including aluminium,Steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,Steel works,tinsmith,ceramic,flooring and other decoration of the building	1	115,002.66	115,002.66	1/3
D Renovation for central post building in Zemun							
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	190,695.70	190,695.70	1/4
2	Decoration works	Including aluminium,Steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,Steel works,tinsmith,ceramic,flooring and other decoration of the building	1	382,964.82	382,964.82	1/4

1 Architectural Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
E Architecture of the pedestrian underpass in Zemun Railway Station							
1	Dismantling, concrete, reinforcement,insulation and masonry works		completion of dismantling, concrete, reinforcement,insulation and masonry works	1	75,759.45	75,759.45	1/5
2	Steel, canopy covering and tinsmith's works		completion of steel, canopy covering and tinsmith's works	1	25,334.77	25,334.77	1/5
3	Locksmith's works,Rendering, painting, construction of ballast and other works		completion of locksmith's works,rendering, painting, construction of ballast and other works	1	196,104.55	196,104.55	1/5
F Architecture of buggage pedestrian underpass in Zemun Railway Station							
1	Dismantling, concrete, insulation and masonry works		completion of dismantling, concrete, insulation and masonry works	1	56,610.17	56,610.17	1/5
2	Rendering, painting and construction of ballast		completion of rendering, painting and construction of ballast	1	51,731.15	51,731.15	1/5
G Architecture of the pedestrian underpass in the Altina stopping place							
1	Architecture of the pedestrian underpass in the Altina stopping place		Completion of decoration of the pedestrian underpass y in the Altina stopping place	1	65,434.39	65,434.39	1/6
H Repairs and adaptation of the station building in Zemun Polje railway station							
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	20,860.86	20,860.86	1/7
2	Decoration works	Including aluminium,Steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,Steel works,tinsmith,ceramic,flooring and other decoration of the building	1	32,557.78	32,557.78	1/7
I Repairs and adaptation of signalling & telecommunication building in Zemun Polje railway station							

1 Architectural Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	20,613.26	20,613.26	1/8
2	Decoration works	Including aluminium,Steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,Steel works,tinsmith,ceramic,flooring and other decoration of the building	1	20,234.88	20,234.88	1/8
J	Architecture of the pedestrian underpass in the Zemun Polje railway station						
1	Architecture of the pedestrian underpass in the Zemun Polje railway station		Completion of decoration of the pedestrian underpass in the Zemunsko Polje railway station	1	58,387.60	58,387.60	1/9
K	Architecture of the pedestrian underpass in the Kamendin Stopping Place						
1	Architecture of the pedestrian underpass in the Kamendin Stopping Place		Completion of decoration of the pedestrian underpass in the Kamendin stopping place	1	39,632.03	39,632.03	1/10
L	Architecture of station building in Batajnica railway station						
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	121,590.30	121,590.30	1/11
2	Decoration works	Including aluminium,steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,steel works,tinsmith,ceramic,flooring and other decoration of the building	1	94,408.57	94,408.57	1/11
M	Architecture of the pedestrian underpass in the Batajnica railway station						

1 Architectural Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
1	Architecture of the pedestrian underpassy in the Batajnica railway station		Completion of decoration of the pedestrian underpass in the Batajnica railway station	1	79,426.61	79,426.61	1/12
N	Repairs and adaptation of the station building in Nova Pazova railway station						
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	112,361.45	112,361.45	1/13
2	Decoration works	Including aluminium,steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,steel works,tinsmith,ceramic,flooring and other decoration of the building	1	139,032.41	139,032.41	1/13
O	Architecture of the pedestrian underpass in Nova Pazova railway station						
1	Architecture of the pedestrian underpass in Nova Pazova railway station		Completion of decoration of the pedestrian underpass in the Nova Pazova railway station	1	56,247.84	56,247.84	1/14
P	Repairs and adaptation of central post building in Stara Pazova railway station						
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	138,680.03	138,680.03	1/15
2	Decoration works	Including aluminium,steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,steel works,tinsmith,ceramic,flooring and other decoration of the building	1	211,793.38	211,793.38	1/15
Q	Repairs and adaptation of of signalling & telecommunication building in Stara Pazova railway station						

1 Architectural Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	25,247.46	25,247.46	1/16
2	Decoration works	Including aluminium,steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,steel works,tinsmith,ceramic,flooring and other decoration of the building	1	23,978.74	23,978.74	1/16
R	Architecture of the pedestrian underpass in the Stara Pazova railway station						
1	Architecture of the pedestrian underpass in the Stara Pazova railway station		Completion of decoration of the pedestrian underpass in the Stara Pazova railway station	1	60,078.07	60,078.07	1/17
S	Repairs and adaptation of signalling & telecommunication building in Batajnica railway station						
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	26,178.99	26,178.99	1/18
2	Decoration works	Including aluminium,steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,steel works,tinsmith,ceramic,flooring and other decoration of the building	1	27,101.89	27,101.89	1/18
T	Building for track sectioning post (TSP) in Stara Pazova railway station						
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	52,375.08	52,375.08	1/19

1 Architectural Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
2	Decoration works	Including aluminium,steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,steel works,tinsmith,ceramic,flooring and other decoration of the building	1	26,548.67	26,548.67	1/19
U	Building for track sectioning post in Batajnica railway station						
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	61,451.41	61,451.41	1/20
2	Decoration works	Including aluminium,steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,steel works,tinsmith,ceramic,flooring and other decoration of the building	1	29,986.74	29,986.74	1/20
V	Architecture works for electric traction substation and External Substation (ETS) in Zemun railway station						
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	90,638.57	90,638.57	1/21
2	Decoration works	Including aluminium,Steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,Steel works,tinsmith,ceramic,flooring and other decoration of the building	1	32,394.30	32,394.30	1/21
W	Building for placement of temporary GSM-R geo-redundant centre in Batajnica railway station						

1 Architectural Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	54,030.56	54,030.56	1/22
2	Decoration works	Including aluminium,steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,steel works,tinsmith,ceramic,flooring and other decoration of the building	1	21,460.36	21,460.36	1/22
X Building for telecommunication equipment in Altina stopping place							
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	18,051.23	18,051.23	1/23
2	Decoration works	Including aluminium,Steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,Steel works,tinsmith,ceramic,flooring and other decoration of the building	1	10,385.63	10,385.63	1/23
Y Building for telecommunication equipment in Kamendin stopping place							
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	18,151.22	18,151.22	1/24
2	Decoration works	Including aluminium,Steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,Steel works,tinsmith,ceramic,flooring and other decoration of the building	1	11,217.30	11,217.30	1/24
Z Building for telecommunication equipment in Tošin Bunar stopping place							

1 Architectural Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
1	Structure works	Including demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation	Completion of demolition,earth works,concrete and reinforcment concrete,masonry,timber structure,insulation of the building	1	18,051.23	18,051.23	1/25
2	Decoration works	Including aluminium,Steel works,tinsmith,ceramic,flooring and other decoration	Completion of aluminium,Steel works,tinsmith,ceramic,flooring and other decoration of the building	1	10,385.63	10,385.63	1/25
AA	Building for telecommunication equipment next to entrance portal of Bežanijska kosa tunnel						
1	Building for telecommunication equipment next to entrance portal of Bežanijska kosa tunnel		Completion all works of the building	1	29,368.52	29,368.52	1/26
AB	Building for telecommunication equipment next to exit portal of Bežanijska kosa tunnel						
1	Building for telecommunication equipment next to exit portal of Bežanijska kosa tunnel		Completion all works of the building	1	29,368.52	29,368.52	1/27
AC	Temporary containers						
1	temporary container located at Km 3+693,00 (New Belgrade),		completion of the temporary container at Km 3+693,00 (New Belgrade),	1	26,813.41	26,813.41	1/28
2	Temporary container located at Km 5+542,00 (Tosin Bunar),		completion of the temporary container located at Km 5+542,00 (Tosin Bunar),	1	26,813.41	26,813.41	1/28
3	Temporary container located at Km 8+116,00 (Zemun),		completion of the temporary container located at Km 8+116,00 (Zemun),	1	26,813.41	26,813.41	1/28
4	Temporary container located at Km 8+938,00 (Zemun),		completion of the temporary container located at Km 8+938,00 (Zemun),	1	22,938.43	22,938.43	1/28
5	Temporary container located at Km 12+168,00 (Zemun Polje),		completion of the temporary container located at Km 12+168,00 (Zemun Polje),	1	26,813.41	26,813.41	1/28
6	Temporary container located at Km 12+636,00 (Zemun Polje),		completion of the temporary container located at Km 12+636,00 (Zemun Polje),	1	26,813.41	26,813.41	1/28

1 Architectural Works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
7	Temporary container located at Km 13+952,00 (Kamendin),		completion of the temporary container located at Km 13+952,00 (Kamendin),	1	26,813.41	26,813.41	1/28
8	Temporary container located at Km 15+934,00 (Ugrinovci),		completion of the temporary container located at Km 15+934,00 (Ugrinovci),	1	26,813.41	26,813.41	1/28
9	Temporary container located at Km 17+373,00 (Batajnica),		completion of the temporary container located at Km 17+373,00 (Batajnica),	1	26,813.41	26,813.41	1/28
10	Temporary container located at Km 18+540,00 (Batajnica),		completion of the temporary container located at Km 18+540,00 (Batajnica),	1	26,813.41	26,813.41	1/28
11	Temporary container located at Km 19+173,00 (Batajnica),		completion of the temporary container located at Km 19+173,00 (Batajnica),	1	38,438.34	38,438.34	1/28
12	Temporary container located at Km 19+485,00 (Batajnica),		completion of the temporary container located at Km 19+485,00 (Batajnica),	1	26,813.41	26,813.41	1/28
13	Temporary container located at Km 19+537,00 (Batajnica)		completion of the temporary container located at Km 19+537,00 (Batajnica),	1	26,813.41	26,813.41	1/28
14	Temporary container located at km 26+896,00 (Nova Pazova),		completion of the temporary container located at km 26+896,00 (Nova Pazova),	1	26,813.41	26,813.41	1/28
15	Temporary container located at Km 27+694,00 (Nova Pazova),		completion of the temporary container located at Km 27+694,00 (Nova Pazova),	1	26,813.41	26,813.41	1/28
16	Temporary container located at Km 34+698,00 (Stara Pazova),		completion of the temporary container located at Km 34+698,00 (Stara Pazova),	1	26,813.41	26,813.41	1/28
17	Temporary container located at Km 35+641,00 (Stara Pazova),		completion of the temporary container located at Km 35+641,00 (Stara Pazova),	1	26,813.41	26,813.41	1/28
AD	Building for accommodation of supply devices and batteries for backup supply of SS installations in Stara Pazova railway station						
1	Structure works	Including demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation	Completion of demolition, earth works, concrete and reinforcement concrete, masonry, timber structure, insulation of the building	1	19,382.39	19,382.39	1/29
2	Decoration works	Including aluminium, Steel works, tinsmith, ceramic, flooring and other decoration	Completion of aluminium, Steel works, tinsmith, ceramic, flooring and other decoration of the building	1	10,534.01	10,534.01	1/29
Summery(USD)						3,792,366.39	

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Open track section Belgrade Center-New Belgrade km0+694.31-km2+853.76						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	479.32	479.32	2/2.1
2	Removal ballast		Completion of the works for one track	2	41,253.26	82,506.53	2/2.1
3	Foundation Treatment	Topsoil stripping,mechanized tamping of foundation soil	Completion of the works for one track	2	85.94	171.87	2/2.1
4	Excavation		Completion of the works for one track	2	4,278.98	8,557.96	2/2.1
5	Embankment		Completion of works	2	236.66	473.32	2/2.1
6	Transition layer		Completion of the works for one track	2	6,326.66	12,653.31	2/2.1
7	Protection layer		Completion of the works for one track	2	13,778.35	27,556.69	2/2.1
8	Subgrade		Completion of the works for one track	2	5,145.61	10,291.22	2/2.1
9	Dewatering		Completion of the works	1	483.29	483.29	2/2.1
10	Slope topsoling		Completion of the works	1	263.96	263.96	2/2.1
B	New Belgrade station km 2+853.76 - km 3+980.98						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	4,543.62	4,543.62	2/2.1
2	Removal ballast		Completion of the Works for the left or right side of the station	2	20,393.83	40,787.65	2/2.1
3	Foundation Treatment	Topsoil stripping,mechanized tamping of foundation soil	Completion of the Works for the left or right side of the station	2	1,967.63	3,935.25	2/2.1
4	Excavation		Completion of the Works for the left or right side of the station	2	52,565.54	105,131.09	2/2.1
5	Embankment		Completion of the Works for the left or right side of the station	2	8,185.61	16,371.22	2/2.1

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Transition layer		Completion of the Works for the left or right side of the station	2	51,275.04	102,550.08	2/2.1
7	Protection layer		Completion of the Works for the left or right side of the station	2	112,053.30	224,106.61	2/2.1
8	Subgrade		Completion of the Works for the left or right side of the station	2	41,724.31	83,448.63	2/2.1
9	Dewatering		Completion of the works	1	27,335.79	27,335.79	2/2.1
10	Slope topsoling		Completion of the works	1	2,715.96	2,715.96	2/2.1
C	Open track section New Belgrade-Zemun km 3+980.98 - km 7+623.62						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	26,457.19	26,457.19	2/2.1
2	Removal ballast		Completion of the works for one track	2	68,258.79	136,517.57	2/2.1
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the works for one track	2	18,091.95	36,183.90	2/2.1
4	Excavation		Completion of the works for one track	2	64,332.66	128,665.32	2/2.1
5	Embankment		Completion of the works for one track	2	178,231.89	356,463.78	2/2.1
6	Transition layer		Completion of the works for one track	2	64,907.80	129,815.59	2/2.1
7	Geocomposite		Completion of the works for one track	2	2,791.97	5,583.95	2/2.1
8	Protection layer		Completion of the works for one track	2	127,876.56	255,753.13	2/2.1

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9	Subgrade		Completion of the works for one track	2	51,426.31	102,852.61	2/2.1
10	Dewatering		Completion of the works	1	11,090.92	11,090.92	2/2.1
11	Slope topsoling		Completion of the works	1	10,154.42	10,154.42	2/2.1
D	Zemun station km 7+623.62 - km 8+920.67						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	77,093.13	77,093.13	2/2.1
2	Removal ballast		Completion of the Works for the left or right side of the station	2	78,129.77	156,259.54	2/2.1
3	Excavation		Completion of the Works for the left or right side of the station	2	242,264.04	484,528.07	2/2.1
4	Embankment		Completion of the Works for the left or right side of the station	2	2,338.75	4,677.49	2/2.1
5	Transition layer		Completion of the Works for the left or right side of the station	2	273,568.36	547,136.72	2/2.1
6	Geocomposite		Completion of the Works for the left or right side of the station	2	91,708.92	183,417.84	2/2.1
7	Protection layer		Completion of the Works for the left or right side of the station	2	388,712.19	777,424.39	2/2.1
8	Subgrade		Completion of the Works for the left or right side of the station	2	119,599.77	239,199.54	2/2.1
9	Dewatering		Completion of the works	1	430,085.38	430,085.38	2/2.1
10	Slope topsoling		Completion of the works	1	1,650.30	1,650.30	2/2.1

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
E	Open track between Zemun and Zemunsko Polje (km8+920.67 - km12+026.56)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	69,308.66	69,308.66	2/2.1
2	Removal ballast		Completion of the works for one track	2	55,407.88	110,815.77	2/2.1
3	Foundation Treatment	Topsoil stripping,mechanized tamping of foundation soil	Completion of the works for one track	2	18,950.47	37,900.95	2/2.1
4	Excavation		Completion of the works for one track	2	242,761.39	485,522.78	2/2.1
5	Embankment		Completion of the works for one track	2	25,044.07	50,088.13	2/2.1
6	Transition layer		Completion of the works for one track	2	224,199.26	448,398.51	2/2.1
7	Geocomposite		Completion of the works for one track	2	52,577.81	105,155.62	2/2.1
8	Protection layer		Completion of the works for one track	2	322,877.90	645,755.80	2/2.1
9	Subgrade		Completion of the works for one track	2	139,661.05	279,322.10	2/2.1
10	Slope topsoling		Completion of the works	1	33,249.55	33,249.55	2/2.1
F	Zemunsko Polje station (km12+026.56 - km12+667.05)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	20,056.79	20,056.79	2/2.1
2	Removal ballast		Completion of the Works for the left or right side of the station	2	42,696.66	85,393.33	2/2.1

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Foundation Treatment	Topsoil stripping,mechanized tamping of foundation soil	Completion of the Works for the left or right side of the station	2	1,862.54	3,725.09	2/2.1
4	Excavation		Completion of the Works for the left or right side of the station	2	59,449.56	118,899.13	2/2.1
5	Embankment		Completion of the Works for the left or right side of the station	2	529.00	1,058.00	2/2.1
6	Transition layer		Completion of the Works for the left or right side of the station	2	69,672.64	139,345.28	2/2.1
7	Geocomposite		Completion of the Works for the left or right side of the station	2	21,031.12	42,062.25	2/2.1
8	Protection layer		Completion of the Works for the left or right side of the station	2	76,892.71	153,785.42	2/2.1
9	Subgrade		Completion of the Works for the left or right side of the station	2	33,817.65	67,635.29	2/2.1
10	Dewatering		Completion of the works	1	59,244.23	59,244.23	2/2.1
11	Slope topsoling		Completion of the works	1	4,969.81	4,969.81	2/2.1
G	Open track between Zemunsko Polje and Batajnica (km12+667.05 - km18+246.93)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	110,042.90	110,042.90	2/2.1
2	Removal ballast		Completion of the works for one track	2	98,802.97	197,605.93	2/2.1
3	Foundation Treatment	Topsoil stripping,mechanized tamping of foundation soil	Completion of the works for one track	2	15,294.31	30,588.61	2/2.1
4	Excavation		Completion of the works for one track	2	480,792.11	961,584.22	2/2.1
5	Embankment		Completion of the works for one track	2	1,322.50	2,645.01	2/2.1
6	Transition layer		Completion of the works for one track	2	408,876.76	817,753.52	2/2.1

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	Geocomposite		Completion of the works for one track	2	97,440.73	194,881.46	2/2.1
8	Protection layer		Completion of the works for one track	2	423,495.57	846,991.14	2/2.1
9	Subgrade		Completion of the works for one track	2	171,998.19	343,996.38	2/2.1
10	Dewatering		Completion of the works	1	11,253.39	11,253.39	2/2.1
11	Slope topsoling		Completion of the works	1	51,841.53	51,841.53	2/2.1
H	Batajnica passenger Station (km18+246.93 - km19+901.41)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	33,801.57	33,801.57	2/2.1
2	Removal ballast		Completion of the Works for the left or right side of the passenger station	2	50,286.15	100,572.29	2/2.1
3	Foundation Treatment	Topsoil stripping,mechanized tamping of foundation soil	Completion of the Works for the left or right side of the passenger station	2	1,440.52	2,881.03	2/2.1
4	Excavation		Completion of the Works for the left or right side of the passenger station	2	129,897.81	259,795.62	2/2.1
5	Embankment		Completion of the Works for the left or right side of the passenger station	2	3,438.51	6,877.03	2/2.1
6	Transition layer		Completion of the Works for the left or right side of the passenger station	2	150,569.14	301,138.29	2/2.1
7	Geocomposite		Completion of the Works for the left or right side of the passenger station	2	46,376.33	92,752.65	2/2.1
8	Protection layer		Completion of the Works for the left or right side of the passenger station	2	171,772.71	343,545.42	2/2.1
9	Subgrade		Completion of the Works for the left or right side of the passenger station	2	65,942.07	131,884.14	2/2.1
10	Dewatering		Completion of the works	1	147,368.03	147,368.03	2/2.1

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	Slope topsoling		Completion of the works	1	3,696.16	3,696.16	2/2.1
I	Batajnica Freight Station (km19+880.86 - km21+275.26)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	22,560.22	22,560.22	2/2.1
2	Removal ballast		Completion of the Works for the left or right side of the freight station	2	50,938.00	101,876.01	2/2.1
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the freight station	2	8,140.23	16,280.46	2/2.1
4	Excavation		Completion of the Works for the left or right side of the freight station	2	140,887.40	281,774.80	2/2.1
5	Embankment		Completion of the Works for the left or right side of the freight station	2	96,389.72	192,779.44	2/2.1
6	Transition layer		Completion of the Works for the left or right side of the freight station	2	162,348.90	324,697.81	2/2.1
7	Geocomposite		Completion of the Works for the left or right side of the freight station	2	49,524.91	99,049.81	2/2.1
8	Protection layer		Completion of the Works for the left or right side of the freight station	2	177,728.77	355,457.54	2/2.1
9	Subgrade		Completion of the Works for the left or right side of the freight station	2	67,135.41	134,270.82	2/2.1
10	Dewatering		Completion of the works	1	72,072.26	72,072.26	2/2.1
11	Slope topsoling		Completion of the works	1	10,696.70	10,696.70	2/2.1
J	Open track Between Batajnica and Nova Pazova (km21+275.26 - km26+470.18)						

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	7,065.96	7,065.96	2/2.1
2	Removal ballast		Completion of the Works for one track	2	55,724.50	111,449.00	2/2.1
3	Foundation Treatment	Topsoil stripping,mechanized tamping of foundation soil	Completion of the Works for one track of the four tracks	4	198,398.84	793,595.37	2/2.1
4	Excavation		Completion of the Works for one track of the four tracks	4	71,015.57	284,062.27	2/2.1
5	Embankment		Completion of the Works for one track of the four tracks	4	1,634,032.93	6,536,131.74	2/2.1
6	Transition layer		Completion of the Works for one track of the four tracks	4	230,611.95	922,447.78	2/2.1
7	Protection layer		Completion of the Works for one track of the four tracks	4	333,747.71	1,334,990.82	2/2.1
8	Subgrade		Completion of the Works for one track of the four tracks	4	86,215.00	344,860.01	2/2.1
9	Dewatering		Completion of the works	1	308,868.40	308,868.40	2/2.1
10	Slope topsoling		Completion of the works	1	87,450.06	87,450.06	2/2.1
K	Nova Pazova station (km26+470.18 - km27+751.91)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	2,002.37	2,002.37	2/2.1
2	Removal ballast		Completion of the Works for the left or right side of the station	2	21,511.30	43,022.59	2/2.1
3	Foundation Treatment	Topsoil stripping,mechanized tamping of foundation soil	Completion of the Works for the left or right side of the station	2	36,298.34	72,596.69	2/2.1

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Excavation		Completion of the Works for the left or right side of the station	2	21,686.57	43,373.15	2/2.1
5	Embankment		Completion of the Works for the left or right side of the station	2	33,832.11	67,664.22	2/2.1
6	Transition layer		Completion of the Works for the left or right side of the station	2	70,850.62	141,701.24	2/2.1
7	Protection layer		Completion of the Works for the left or right side of the station	2	80,307.51	160,615.03	2/2.1
8	Subgrade		Completion of the Works for the left or right side of the station	2	14,634.89	29,269.77	2/2.1
9	Dewatering		Completion of the works	1	57,249.72	57,249.72	2/2.1
10	Slope topsoling		Completion of the works	1	4,734.59	4,734.59	2/2.1
L	Open track between Nova Pazova - Stara Pazova (km27+751.91-km34+637.91)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	25,596.87	25,596.87	2/2.1
2	Removal ballast		Completion of the Works for one track	2	63,611.97	127,223.95	2/2.1
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for one track of the four tracks	4	28,218.74	112,874.96	2/2.1
4	Excavation		Completion of the Works for one track of the four tracks	4	46,860.44	187,441.78	2/2.1
5	Embankment		Completion of the Works for one track of the four tracks	4	80,255.90	321,023.58	2/2.1
6	Transition layer		Completion of the Works for one track of the four tracks	4	41,725.49	166,901.98	2/2.1
7	Protection layer		Completion of the Works for one track of the four tracks	4	170,670.84	682,683.36	2/2.1

2 Substructure works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	Subgrade		Completion of the Works for one track of the four tracks	4	18,002.19	72,008.74	2/2.1
9	Dewatering		Completion of the works	1	211,613.54	211,613.54	2/2.1
10	Slope topsoling		Completion of the works	1	24,582.07	24,582.07	2/2.1
M	Stara Pazova station (km34+637.91- km36+339.65)						
1	Preliminary works	Including clearing of site, cutting tree, removal fences and demolition of existing facilities	Completion of works	1	3,483.25	3,483.25	2/2.1
2	Removal ballast		Completion of the Works for the left or right side of the station	2	25,198.95	50,397.89	2/2.1
3	Foundation Treatment	Topsoil stripping, mechanized tamping of foundation soil	Completion of the Works for the left or right side of the station	2	667.50	1,335.01	2/2.1
4	Excavation		Completion of the Works for the left or right side of the station	2	11,654.78	23,309.55	2/2.1
5	Transition layer		Completion of the Works for the left or right side of the station	2	12,891.56	25,783.11	2/2.1
6	Protection layer		Completion of the Works for the left or right side of the station	2	18,007.15	36,014.30	2/2.1
7	Subgrade		Completion of the Works for the left or right side of the station	2	4,947.78	9,895.56	2/2.1
8	Dewatering		Completion of the works	1	1,145.64	1,145.64	2/2.1
Summery(USD)						27,858,544.76	

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
A	Open track section Belgrade Center-New Belgrade km0+694.31-km2+853.76						
1	Dismantling existing track		Completion of dismantling existing track on left or right track	2	60,309.34	120,618.68	2/2-1
2	Ballast		Completion of the Works on left or right track	2	221,366.82	442,733.64	2/2-1
3	Assembling and laying track						
3-1	Procurement		Completion of the Works on left or right track	2	579,649.47	1,159,298.93	2/2-1
3-2	Handling		Completion of the Works on left or right track	2	20,536.41	41,072.81	2/2-1
3-3	Works		Completion of the Works on left or right track	2	1,084,747.29	2,169,494.57	2/2-1
4	Mechanized leveling and dynamic stabilization of the track		Completion of the Works on left or right track	2	108,891.87	217,783.73	2/2-1
5	Welding and stress relief		Completion of the Works on left or right track	2	40,092.78	80,185.56	2/2-1
6	Other works		completion of all other works	1	18,573.82	18,573.82	2/2-1
B	New Belgrade station km 2+853.76 - km 3+980.98						
1	Dismantling existing track		Completion of dismantling existing track for the left or right side of the station	2	56,497.46	112,994.93	2/2-1
2	Dismantling existing switchess		Completion of dismantlement of one set of existing switch	17	2,970.01	50,490.16	2/2-1
3	Ballast		Completion of the Works for the left or right side of the station	2	141,833.59	283,667.19	2/2-1
4	Assembling and laying track						
4-1	Procurement		Completion of the Works for the left or right side of the station	2	1,048,508.79	2,097,017.57	2/2-2
4-2	Handling		Completion of the Works for the left or right side of the station	2	13,662.76	27,325.52	2/2-2
4-3	Works		Completion of the Works for the left or right side of the station	2	53,965.43	107,930.86	2/2-2
5	Assembling and laying of switchess - Type 60E1-300-6°						
5-1	Procurement		Completion of procurement for each one set of switches	7	107,672.15	753,705.07	2/2-1
5-2	Handling		Completion of handling for each one set of switches	7	656.76	4,597.32	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
5-3	Works		Completion of works for each one set of switches	7	22,265.99	155,861.92	2/2-1
6	Assembling and laying of switchess	- Type 60E1-200-6°					
6-1	Procurement		Completion of procurement for each one set of switches	4	92,721.74	370,886.97	2/2-1
6-2	Handling		Completion of handling for each one set of switches	4	547.30	2,189.20	2/2-1
6-3	Works		Completion of works for each one set of switches	4	19,976.45	79,905.80	2/2-1
7	Assembling and laying of double connecting track	- Double connecting track: 4 switches type 60E1-300-6° type and 1 crossing type 60E1-12°					
7-1	Procurement		Completion of procurement for each one set of double connecting track	1	631,817.34	631,817.34	2/2-1
7-2	Handling		Completion of handling for each one set of double connecting track	1	3,853.85	3,853.85	2/2-1
7-3	Works		Completion of works for each one set of double connecting track	1	130,656.23	130,656.23	2/2-1
8	Mechanized leveling and dynamic stabilization of the track		Completion of the Works for the left or right side of the station	2	43,507.59	87,015.17	2/2-1
9	Welding and stress relief		Completion of the Works for the left or right side of the station	2	78,336.34	156,672.69	2/2-1
10	Other works		completion of all other works	1	10,336.12	10,336.12	2/2-1
C	Open track section New Belgrade-Zemun km 3+980.98 - km 7+623.62						
1	Dismantling existing track		Completion of dismantling existing track on left or right track	2	99,789.50	199,578.99	2/2-1
2	Ballast		Completion of the Works on left or right track	2	365,622.54	731,245.09	2/2-1
3	Assembling and laying track						
3-1	Procurement		Completion of the Works on left or right track	2	949,766.94	1,899,533.88	2/2-1
3-2	Handling		Completion of the Works on left or right track	2	33,944.84	67,889.67	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
3-3	Works		Completion of the Works on left or right track	2	246,477.04	492,954.08	2/2-1
4	Mechanized leveling and dynamic stabilization of the track		Completion of the Works on left or right track	2	180,175.48	360,350.96	2/2-1
5	Welding and stress relief		Completion of the Works on left or right track	2	63,860.29	127,720.57	2/2-1
6	Other works		completion of all other works	1	26,150.88	26,150.88	2/2-1
D	Zemun station km 7+623.62 - km 8+920.67						
1	Dismantling existing track		Completion of dismantling existing track for the left or right side of the station	2	99,925.63	199,851.27	2/2-1
2	Dismantling existing switchess		Completion of dismantlement of one set of existing switch	42	2,970.01	124,740.39	2/2-1
3	Ballast		Completion of the Works for the left or right side of the station	2	597,055.10	1,194,110.20	2/2-1
4	Assembling and laying track						
4-1	Procurement		Completion of the Works for the left or right side of the station	2	1,113,152.81	2,226,305.63	2/2-1
4-2	Handling		Completion of the Works for the left or right side of the station	2	39,827.19	79,654.38	2/2-1
4-3	Works		Completion of the Works for the left or right side of the station	2	253,172.41	506,344.81	2/2-1
5	Assembling and laying of switchess - type 60E1-300-6°						
5-1	Procurement		Completion of procurement for each one set of switches	15	107,672.15	1,615,082.30	2/2-1
5-2	Handling		Completion of handling for each one set of switches	15	656.76	9,851.40	2/2-1
5-3	Works		Completion of works for each one set of switches	15	22,265.99	333,989.83	2/2-1
6	Assembling and laying of switchess - Type 60E1-200-6°						
6-1	Procurement		Completion of procurement for each one set of switches	20	92,721.74	1,854,434.83	2/2-1
6-2	Handling		Completion of handling for each one set of switches	20	547.30	10,946.00	2/2-1
6-3	Works		Completion of works for each one set of switches	20	19,976.45	399,529.00	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
7	Assembling and laying of double connecting track	- Double connecting track: 4 switches type 60E1-300-6° type and 1 crossing type 60E1-12°					
7-1	Procurement		Completion of procurement for each one set of double connecting track	2	576,394.77	1,152,789.53	2/2-1
7-2	Handling		Completion of handling for each one set of double connecting track	2	3,515.79	7,031.59	2/2-1
7-3	Works		Completion of works for each one set of double connecting track	2	119,195.16	238,390.31	2/2-1
8	Mechanized leveling and dynamic stabilization of the track		Completion of the Works for the left or right side of the station	2	208,688.92	417,377.85	2/2-1
9	Welding and stress relief		Completion of the Works for the left or right side of the station	2	197,366.74	394,733.48	2/2-1
10	Fence		Completion of the Works	1	16,704.38	16,704.38	2/2-1
11	Other works		completion of all other works	1	20,655.61	20,655.61	2/2-1
E	Open track between Zemun and Zemunsko Polje (km8+920.67 - km12+026.56)						
1	Dismantling existing track		Completion of dismantling existing track on left or right track	2	81,002.39	162,004.78	2/2-1
2	Ballast		Completion of the Works on left or right track	2	301,575.07	603,150.13	2/2-1
3	Assembling and laying track						
3-1	Procurement		Completion of the Works on left or right track	2	784,117.86	1,568,235.72	2/2-1
3-2	Handling		Completion of the Works on left or right track	2	27,998.91	55,997.82	2/2-1
3-3	Works		Completion of the Works on left or right track	2	256,898.01	513,796.03	2/2-1
4	Mechanized leveling and dynamic stabilization of the track		Completion of the Works on left or right track	2	148,466.56	296,933.12	2/2-1
5	Welding and stress relief		Completion of the Works on left or right track	2	52,719.62	105,439.24	2/2-1
6	Fence		Completion of the Works	1	47,531.42	47,531.42	2/2-1
7	Other works		completion of all other works	1	17,932.46	17,932.46	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
F	Zemunsko Polje station (km12+026.56 - km12+667.05)						
1	Dismantling existing track		Completion of dismantling existing track for the left or right side of the station	2	58,675.68	117,351.36	2/2-1
2	Dismantling existing switchess		Completion of dismantlement of one set of existing switch	11	2,970.01	32,670.10	2/2-1
3	Ballast		Completion of the Works for the left or right side of the station	2	114,396.02	228,792.04	2/2-1
4	Assembling and laying track						
4-1	Procurement		Completion of the Works on left or right track	2	292,951.17	585,902.33	2/2-1
4-2	Handling		Completion of the Works on left or right track	2	10,962.42	21,924.84	2/2-1
4-3	Works		Completion of the Works on left or right track	2	69,437.00	138,874.00	2/2-1
5	Assembling and laying of switches - Type 60E1-300-6°						
5-1	Procurement		Completion of procurement for each one set of switches	14	107,672.15	1,507,410.15	2/2-1
5-2	Handling		Completion of handling for each one set of switches	14	656.76	9,194.64	2/2-1
5-3	Works		Completion of works for each one set of switches	14	22,265.99	311,723.84	2/2-1
6	Mechanized leveling and dynamic stabilization of the track		Completion of the Works for the left or right side of the station	2	55,755.32	111,510.64	2/2-1
7	Welding and stress relief		Completion of the Works for the left or right side of the station	2	59,158.21	118,316.43	2/2-1
8	Fence		Completion of the Works	1	8,824.80	8,824.80	2/2-1
9	Other works		completion of all other works	1	4,382.90	4,382.90	2/2-1
G	Open track between Zemunsko Polje and Batajnica (km12+667.05 - km18+246.93)						
1	Dismantling existing track		Completion of dismantling existing track on left or right track	2	145,435.59	290,871.18	2/2-1
2	Ballast		Completion of the Works on left or right track	2	526,336.84	1,052,673.68	2/2-1
3	Assembling and laying track						
3-1	Procurement		Completion of the Works on left or right track	2	1,449,992.38	2,899,984.75	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
3-2	Handling		Completion of the Works on left or right track	2	51,866.46	103,732.92	2/2-1
3-3	Works		Completion of the Works on left or right track	2	324,124.89	648,249.78	2/2-1
4	Mechanized leveling and dynamic stabilization of the track		Completion of the Works on left or right track	2	275,302.23	550,604.47	2/2-1
5	Welding and stress relief		Completion of the Works on left or right track	2	97,282.28	194,564.56	2/2-1
6	Fence		Completion of the Works	1	91,424.92	91,424.92	2/2-1
7	Other works		completion of all other works	1	46,301.45	46,301.45	2/2-1
H	Batajnica passenger Station (km18+246.93 - kmK19+901.41)						
1	Dismantling existing track		Completion of dismantling existing track for the left or right side of the passenger station	2	67,927.42	135,854.85	2/2-1
2	Dismantling existing switchess		Completion of dismantlement of one set of existing switch	20	2,970.01	59,400.19	2/2-1
3	Ballast		Completion of the Works for the left or right side of the passenger station	2	209,990.75	419,981.50	2/2-1
4	Assembling and laying track						
4-1	Procurement		Completion of the Works for the left or right side of the passenger station	2	566,118.63	1,132,237.25	2/2-1
4-2	Handling		Completion of the Works for the left or right side of the passenger station	2	20,245.60	40,491.19	2/2-1
4-3	Works		Completion of the Works for the left or right side of the passenger station	2	128,773.75	257,547.51	2/2-1
5	Assembling and laying of switchess - type 60E1-300-6°						
5-1	Procurement		Completion of procurement for each one set of switches	19	107,672.15	2,045,770.91	2/2-1
5-2	Handling		Completion of handling for each one set of switches	19	656.76	12,478.44	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
5-3	Works		Completion of works for each one set of switches	19	22,265.99	423,053.78	2/2-1
6	Assembling and laying of switchess	- Type 60E1-200-7,5°					
6-1	Procurement		Completion of procurement for each one set of switches	1	93,041.00	93,041.00	2/2-1
6-2	Handling		Completion of handling for each one set of switches	1	547.30	547.30	2/2-1
6-3	Works		Completion of works for each one set of switches	1	19,976.45	19,976.45	2/2-1
7	Assembling and laying of double connecting track	- Double connecting track: 4 switches type 60E1-300-6° type and 1 crossing type 60E1-12°					
7-1	Procurement		Completion of procurement for each one set of double connecting track	1	687,239.91	687,239.91	2/2-1
7-2	Handling		Completion of handling for each one set of double connecting track	1	4,191.91	4,191.91	2/2-1
7-3	Works		Completion of works for each one set of double connecting track	1	142,117.30	142,117.30	2/2-1
8	Mechanized leveling and dynamic stabilization of the track		Completion of the Works for the left or right side of the passenger station	2	105,729.48	211,458.96	2/2-1
9	Welding and stress relief		Completion of the Works for the left or right side of the passenger station	2	101,309.71	202,619.42	2/2-1
10	Fence		Completion of the Works	1	2,279.75	2,279.75	2/2-1
11	Other works		completion of all other works	1	17,441.98	17,441.98	2/2-1
I	Batajnica Freight Station (km19+880.86 - km21+275.26)						
1	Dismantling existing track		Completion of dismantling existing trackfor the left or right side of the freight station	2	69,022.20	138,044.41	2/2-1
2	Dismantling existing switchess		Completion of dismantlement of one set of existing switch	16	2,970.01	47,520.15	2/2-1
3	Ballast		Completion of the Works for the left or right side of the freight station	2	300,443.42	600,886.83	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
4	Assembling and laying track						
4-1	Procurement		Completion of the Works for the left or right side of the freight station	2	640,440.82	1,280,881.64	2/2-1
4-2	Handling		Completion of the Works for the left or right side of the freight station	2	22,884.86	45,769.72	2/2-1
4-3	Works		Completion of the Works for the left or right side of the freight station	2	144,555.65	289,111.31	2/2-1
5	Assembling and laying of switchess - Type 60E1-300-6°						
5-1	Procurement		Completion of procurement for each one set of switches	13	107,672.15	1,399,737.99	2/2-1
5-2	Handling		Completion of handling for each one set of switches	13	656.76	8,537.88	2/2-1
5-3	Works		Completion of works for each one set of switches	13	22,265.99	289,457.85	2/2-1
6	Assembling and laying of switchess - Type 60E1-200-6°						
6-1	Procurement		Completion of procurement for each one set of switches	3	92,721.74	278,165.23	2/2-1
6-2	Handling		Completion of handling for each one set of switches	3	547.30	1,641.90	2/2-1
6-3	Works		Completion of works for each one set of switches	3	19,976.45	59,929.35	2/2-1
7	Mechanized leveling and dynamic stabilization of the track		Completion of the Works for the left or right side of the freight station	2	120,690.53	241,381.07	2/2-1
8	Welding and stress relief		Completion of the Works for the left or right side of the freight station	2	87,720.44	175,440.89	2/2-1
9	Fence		Completion of the Works	1	3,566.45	3,566.45	2/2-1
10	Other		completion of all other works	1	9,180.46	9,180.46	2/2-1
J	Open track between Batajnica and Nova Pazova (km21+275.26 - km26+470.32)						
1	Dismantling existing track		Completion of dismantling existing track on left or right track	2	143,898.36	287,796.72	2/2-1
2	Ballast		Completion of the Works on each track of the four tracks	4	550,409.24	2,201,636.96	2/2-1
3	Assembling and laying track						
3-1	Procurement		Completion of the Works on each track of the four tracks	4	1,373,847.96	5,495,391.83	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
3-2	Handling		Completion of the Works on each track of the four tracks	4	49,191.91	196,767.64	2/2-1
3-3	Works		Completion of the Works on each track of the four tracks	4	311,530.90	1,246,123.60	2/2-1
4	Mechanized leveling and dynamic stabilization of the track		Completion of the Works on each track of the four tracks	4	261,291.32	1,045,165.26	2/2-1
5	Welding and stress relief		Completion of the Works on each track of the four tracks	1	370,251.25	370,251.25	2/2-1
6	Fence		completion of the works	1	100,567.98	100,567.98	2/2-1
7	Other works		completion of all other works	1	71,231.81	71,231.81	2/2-1
K	Nova Pazova station (km26+470.32 - km27+751.91)						
1	Dismantling existing track		Completion of dismantling existing track for the left or right side of the station	2	56,089.05	112,178.10	2/2-1
2	Dismantling existing switchess		Completion of dismantlement of one set of existing switch	17	2,970.01	50,490.16	2/2-1
3	Ballast		Completion of the Works for the left or right side of the station	2	259,604.71	519,209.42	2/2-1
4	Assembling and laying track						
4-1	Procurement		Completion of the Works for the left or right side of the station	2	654,527.28	1,309,054.55	2/2-1
4-2	Handling		Completion of the Works for the left or right side of the station	2	23,417.25	46,834.51	2/2-1
4-3	Works		Completion of the Works for the left or right side of the station	2	146,024.10	292,048.21	2/2-1
5	Assembling and laying of switchess - Type 60E1-1200-1:18.5						
5-1	Procurement		Completion of procurement for each one set of switches	8	277,018.96	2,216,151.71	2/2-1
5-2	Handling		Completion of handling for each one set of switches	8	1,051.73	8,413.86	2/2-1
5-3	Works		Completion of works for each one set of switches	8	29,918.05	239,344.38	2/2-1
6	Assembling and laying of switchess - Type 60E1-760-1:14						
6-1	Procurement		Completion of procurement for each one set of switches	2	246,969.45	493,938.90	2/2-1
6-2	Handling		Completion of handling for each one set of switches	2	882.70	1,765.41	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
6-3	Works		Completion of works for each one set of switches	2	24,659.38	49,318.77	2/2-1
7	Assembling and laying of switchess		- Type 60E1-300-60°				
7-1	Procurement		Completion of procurement for each one set of switches	1	107,672.15	107,672.15	2/2-1
7-2	Handling		Completion of handling for each one set of switches	1	656.76	656.76	2/2-1
7-3	Works		Completion of works for each one set of switches	7	22,265.99	155,861.92	2/2-1
8	Assembling and laying of switchess		- type 49E1-300-60				
8-1	Works		Completion of works for each one set of switches	1	20,085.91	20,085.91	2/2-1
9	Mechanized leveling and dynamic stabilization of the track		Completion of the Works for the left or right side of the station	2	139,419.03	278,838.05	2/2-1
10	Welding and stress relief		Completion of the Works for the left or right side of the station	2	70,031.90	140,063.79	2/2-1
11	Fence		Completion of the Works	1	12,797.31	12,797.31	2/2-1
12	Other works		completion of all other works	1	9,458.03	9,458.03	2/2-1
L	Open track between Nova Pazova - Stara Pazova (km27+751.91-km34+637.91)						
1	Dismantling existing track		Completion of dismantling existing track on left or right track	2	180,791.88	361,583.77	2/2-1
2	Ballast		Completion of the Works on each track of the four tracks	4	675,794.19	2,703,176.74	2/2-1
3	Assembling and laying track						
3-1	Procurement		Completion of the Works on each track of the four tracks	4	1,715,904.84	6,863,619.34	2/2-1
3-2	Handling		Completion of the Works on each track of the four tracks	4	61,441.77	245,767.09	2/2-1
3-3	Works		Completion of the Works on each track of the four tracks	4	383,241.13	1,532,964.52	2/2-1
4	Mechanized leveling and dynamic stabilization of the track		Completion of the Works on each track of the four tracks	4	326,429.79	1,305,719.16	2/2-1
5	Welding and stress relief		Completion of the Works on each track of the four tracks	4	115,876.53	463,506.10	2/2-1
6	Fence		completion of the works	1	115,084.89	115,084.89	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
7	Other works		completion of all other works	1	72,665.04	72,665.04	2/2-1
M	Stara Pazova station (km34+637.91- km36+339.65)						
1	Dismantling existing track		Completion of dismantling existing track for the left or right side of the station	2	88,217.73	176,435.45	2/2-1
2	Dismantling existing switchess		Completion of dismantlement of one set of existing switch	22	2,970.01	65,340.20	2/2-1
3	Ballast		Completion of the Works for the left or right side of the station	2	357,025.97	714,051.93	2/2-1
4	Assembling and laying track						
4-1	Procurement		Completion of the Works for the left or right side of the station	2	896,301.16	1,792,602.32	2/2-1
4-2	Handling		Completion of the Works for the left or right side of the station	2	32,264.20	64,528.40	2/2-1
4-3	Works		Completion of the Works for the left or right side of the station	2	201,051.94	402,103.87	2/2-1
5	Assembling and laying of switchess - Type 60E1-1200-1:18.5						
5-1	Procurement		Completion of procurement for each one set of switches	12	277,018.96	3,324,227.56	2/2-1
5-2	Handling		Completion of handling for each one set of switches	12	1,051.73	12,620.80	2/2-1
5-3	Works		Completion of works for each one set of switches	12	29,918.05	359,016.58	2/2-1
6	Assembling and laying of switchess - Type 60E1-760-1:14						
6-1	Procurement		Completion of procurement for each one set of switches	4	246,969.45	987,877.80	2/2-1
6-2	Handling		Completion of handling for each one set of switches	4	882.70	3,530.82	2/2-1
6-3	Works		Completion of works for each one set of switches	4	24,659.38	98,637.53	2/2-1
7	Assembling and laying of switchess - Type 60E1-300-60°						
7-1	Works		Completion of works for each one set of switches	5	22,265.99	111,329.94	2/2-1
8	Assembling and laying of switchess - Type 49E1-200-60°						
8-1	Procurement		Completion of procurement for each one set of switches	2	77,762.21	155,524.42	2/2-1

3 Superstructure

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
8-2	Handling		Completion of handling for each one set of switches	2	547.30	1,094.60	2/2-1
8-3	Works		Completion of works for each one set of switches	3	19,976.45	59,929.35	2/2-1
9	Mechanized leveling and dynamic stabilization of the track		Completion of the Works for the left or right side of the station	2	171,009.77	342,019.54	2/2-1
10	Welding and stress relief		Completion of the Works for the left or right side of the station	2	99,104.27	198,208.53	2/2-1
11	Fence		Completion of the Works	1	16,628.93	16,628.93	2/2-1
12	Other		completion of all other works	1	11,088.67	11,088.67	2/2-1
Summery(USD)						86,887,920.62	

4 Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
A Overpass bridge at km13+288.51							
1	Pile of abutment	Located on abutment S1, S8	Completion of the piles located on each abutment	2	200,089.34	400,178.67	2/1-1
2	Pile of Pier	Located on piers ,S2, S3, S4, S5, S6, S7	Completion of the piles located on each pier	6	113,401.98	680,411.90	2/1-1
3	Pile Cap of abutment	Located on abutment S1, S8	Completion of the pile cap of each abutment	2	67,968.69	135,937.38	2/1-1
4	Pile Cap of Pier	Located on piers S1, S2,S3, S4, S5, S6, S7	Completion of the pile cap of each pier	6	55,314.71	331,888.28	2/1-1
5	Abutment body	Located on abutment S1, S8	Completion of each abutment body	2	176,965.83	353,931.65	2/1-1
6	Pier shaft	Located on piers S1, S2, S3, S4, S5, S6, S7	Completion of each pier shaft	6	59,318.65	355,911.90	2/1-1
7	Prefabricated main girders made of prestressed concrete	1. Precast main girders made of pre-stressed concrete; 2. Installation of main girders.	Completion of each span of girder in left side and/or right side of bridge	14	141,838.18	1,985,734.59	2/1-1
8	Bridge deck slab		Completion of bridge deck slab	1	410,559.58	410,559.58	2/1-1
9	Waterproofing		Completion of waterproofing	1	432,334.17	432,334.17	2/1-1
10	Asphalt concrete layer		Completion of the asphalt concrete layer work	1	43,413.04	43,413.04	2/1-1
11	Drainage		Completion of the drainage work	1	3,063.12	3,063.12	2/1-1
12	All other works of Bridge		Completion of all works of Bridge	1	216,261.63	216,261.63	2/1-1
B Underpass at railway km 15+915.43							
1	Underpass at railway km 15+915.43		Completion of underpass works at each side of the railway	2	1,883,884.01	3,767,768.02	2/1-1
C Overpass bridge at km26+392.67							
1	Pile of Abutment	Located on abutment S1, S9	Completion of the piles located on each abutment	2	56,865.46	113,730.93	2/1-1
2	Pile of Pier	Located on piers S2, S3, S4, S5, S6, S7, S8	Completion of the piles located on each pier	7	50,691.50	354,840.49	2/1-1
3	Pile Cap of Abutment	Located on abutment S1, S9	Completion of the pile cap of each abutment	2	29,302.43	58,604.87	2/1-1
4	Pile Cap of Pier	Located on piers S2, S3, S4, S5, S6, S7, S8	Completion of the pile cap of each pier	7	25,116.37	175,814.60	2/1-1
5	Foundation of Retaining wall		Completion of the foundation of the retaining wall	1	58,604.87	58,604.87	2/1-1
6	Abutment body	Located on abutment S1, S9	Completion of each abutment body	2	29,427.73	58,855.45	2/1-1
7	Pier shaft	Located on piers S2, S3, S4, S5, S6, S7, S8	Completion of each pier shaft	7	20,442.81	143,099.68	2/1-1

4 Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
8	Retaining wall body			1	35,200.63	35,200.63	2/1-1
9	Cast main girders in site		Completion of each span	8	149,538.94	1,196,311.48	2/1-1
10	Waterproofing		Completion of waterproofing Works	1	250,825.67	250,825.67	2/1-1
11	Asphalt concrete layer		Completion of the asphalt concrete layer work	1	20,375.39	20,375.39	2/1-1
12	All other works of Bridge		Completion of all works of Bridge	1	168,958.24	168,958.24	2/1-1
D	Overpass bridge at km34+696.44						
1	Pile of Abutment	Located on abutment S1, S10	Completion of the piles located on each abutment	2	65,183.10	130,366.20	2/1-1
2	Pile of Pier	Located on piers S2, S3, S4, S5, S6, S7, S8, S9	Completion of the piles located on each pier	8	67,627.46	541,019.71	2/1-1
3	Pile Cap of Abutment	Located on abutment S1, S10	Completion of the pile cap of each abutment	2	31,194.66	62,389.33	2/1-1
4	Pile Cap of Pier	Located on piers S2, S3, S4, S5, S6, S7, S8, S9	Completion of the pile cap of each pier	8	28,062.97	224,503.75	2/1-1
5	Retaining wall Foundation			1	265,833.82	265,833.82	2/1-1
6	Abutment body	Located on abutment S1, S10	Completion of each abutment body	2	43,822.99	87,645.97	2/1-1
7	Pier shaft	Located on piers S2, S3, S4, S5, S6, S7, S8, S9	Completion of each pier shaft	8	19,746.53	157,972.24	2/1-1
8	Retaining wall body			1	57,846.34	57,846.34	2/1-1
9	Prefabricated main girders made of prestressed concrete		Completion of each span of girders of the bridge	9	174,248.08	1,568,232.70	2/1-1
10	Edge cornices supporting footways		Completion of works	1	65,062.84	65,062.84	2/1-1
11	Waterproofing		Completion of the works	1	335,155.89	335,155.89	2/1-1
12	Steel fence		Completion of the works	1	114,367.66	114,367.66	2/1-1
13	All other works of Bridge		Completion of all works of Bridge	1	184,095.61	184,095.61	2/1-1
E	Frame bridge at km23+762.55						
1	Pile of Overpass bridge	Located on frame structure	Completion of each pile located on frame structure	38	18,882.95	717,552.10	2/1-1
2	Pile Cap		Completion of the pile cap of each side beside railway	2	179,046.14	358,092.29	2/1-1
3	Pier shaft and wall		Completion of each side beside railway	2	329,556.48	659,112.97	2/1-1
4	Bridge deck slab		Completion of bridge deck slab	1	447,390.26	447,390.26	2/1-1
5	Waterproofing		Completion of the Works	1	133,519.41	133,519.41	2/1-1

4 Bridge, Culvert, Underpass

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
6	All other works of Bridge		Completion of all works of Bridge	1	34,145.80	34,145.80	2/1-1
F	Culvert						
1	Km13+240.81 box culvert		Completion of half of the culvert box	2	44,717.71	89,435.43	2/1-2
2	Km14+081box culvert		Completion of half of the culvert box	2	44,087.78	88,175.57	2/1-2
3	Km15+742.11box culvert		Completion of half of the culvert box	2	44,692.45	89,384.91	2/1-2
4	Km16+442.26box culvert		Completion of half of the culvert box	2	44,722.87	89,445.73	2/1-2
5	Km21+833.42box culvert		Completion of half of the culvert box	2	75,426.24	150,852.48	2/1-2
6	Km23+021.04box culvert		Completion of half of the culvert box	2	55,682.33	111,364.67	2/1-2
7	Km23+080.78box culvert		Completion of half of the culvert box	2	147,351.33	294,702.66	2/1-2
8	Km26+235box culvert		Completion of half of the culvert box	2	123,326.91	246,653.82	2/1-2
9	Km26+408.94box culvert		Completion of half of the culvert box	2	176,270.48	352,540.96	2/1-2
10	Km29+603.26box culvert		Completion of half of the culvert box	2	162,899.68	325,799.36	2/1-2
11	Km32+036.58box culvert		Completion of half of the culvert box	2	167,821.96	335,643.92	2/1-2
12	Km32+727.25box culvert		Completion of half of the culvert box	2	156,941.37	313,882.75	2/1-2
G	Underpass						
1	Underpass in Tosin Bunar stopping place		Completion of half of the underpass	2	293,873.21	587,746.43	2/6-1
2	Underpass in Altina stopping place		Completion of half of the underpass	2	205,227.56	410,455.11	2/11-1
3	Underpass in Zemun Polje railway station		Completion of half of the underpass	2	308,655.97	617,311.94	2/14-1
4	Underpass in Kamendin stopping place		Completion of half of the underpass	2	225,164.93	450,329.86	2/15-1
5	Underpass in Batajnica railway station		Completion of half of the underpass	2	522,977.76	1,045,955.53	2/18-1
6	Underpass in Nova Pazova railway station		Completion of half of the underpass	2	202,493.14	404,986.27	2/20-1
Summery(USD)						23,901,588.50	

5 Access Road and Road detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No Books
A Access road to Zemun station							
1	Preliminary works		Completion of the works	1	38,525.48	38,525.48	2/3-1.1-1
2	Substructure-earthworks		Completion of the works	1	160,652.37	160,652.37	2/3-1.1-1
3	Superstructure-pavement structure		Completion of the works	1	371,420.95	371,420.95	2/3-1.1-1
4	Dewatering		Completion of the works	1	41,493.87	41,493.87	2/3-1.1-1
B Road detour from km 12+700 to km 13+000							
1	Preliminary works		Completion of the works	1	28,052.74	28,052.74	2/3-1.2-1
2	Substructure-earthworks		Completion of the works	1	17,886.09	17,886.09	2/3-1.2-1
3	Superstructure-pavement structure		Completion of the works	1	58,322.65	58,322.65	2/3-1.2-1
4	Dewatering		Completion of the works	1	7,719.62	7,719.62	2/3-1.2-1
C Road detour from km 13+300 to km 13+900							
1	Preliminary works		Completion of the works	1	9,023.08	9,023.08	2/3-1.3-1
2	Substructure-earthworks		Completion of the works	1	51,275.14	51,275.14	2/3-1.3-1
3	Superstructure-pavement structure		Completion of the works	1	95,313.51	95,313.51	2/3-1.3-1
D Road grade separation at km 13+288.51 of railway line							
1	Preliminary works		Completion of the works	1	19,361.49	19,361.49	2/3-1.4-1
2	Substructure-earthworks		Completion Half the length of the road	2	522,260.20	1,044,520.40	2/3-1.4-1
3	Superstructure-pavement structure		Completion Half the length of the road	2	579,397.74	1,158,795.48	2/3-1.4-1
4	Dewatering		Completion Half the length of the road	2	57,426.89	114,853.78	2/3-1.4-1
5	Works with geosynthetics		Completion Half the length of the road	2	41,420.60	82,841.20	2/3-1.4-1
6	All other works of Road		Completion of all other works	1	5,284.82	5,284.82	2/3-1.4-1
E Road grade separation at km 15+915.43 of railway line							
1	Preliminary works		Completion of the works	1	8,044.76	8,044.76	2/3-1.5-1
2	Substructure-earthworks		Completion of the works	1	54,865.84	54,865.84	2/3-1.5-1

5 Access Road and Road detour

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No Books
3	Superstructure-pavement structure		Completion of the works	1	106,647.35	106,647.35	2/3-1.5-1
4	Dewatering		Completion of the works	1	2,335.63	2,335.63	2/3-1.5-1
F	Road grade separation at km 26+392.67 of railway Line						
1	Preliminary works		Completion of the works	1	7,538.25	7,538.25	2/3-2.1-1
2	Substructure-earthworks		Completion of the works	1	327,118.31	327,118.31	2/3-2.1-1
3	Superstructure-pavement structure		Completion of the works	1	267,289.12	267,289.12	2/3-2.1-1
4	Dewatering		Completion of the works	1	64,263.60	64,263.60	2/3-2.1-1
G	Access road to Nova Pazova railway station						
1	Preliminary works		Completion of the works	1	10,237.58	10,237.58	2/3-2.2-1
2	Substructure-earthworks		Completion of the works	1	19,276.20	19,276.20	2/3-2.2-1
3	Superstructure-pavement structure		Completion of the works	1	262,634.23	262,634.23	2/3-2.2-1
4	PreCast concrete pipes		Completion of the works	1	1,164.83	1,164.83	2/3-2.2-1
H	Road grade separation at km 34+696.44 of railway line						
1	Preliminary works		Completion of the works	1	84,017.14	84,017.14	2/3-2.3-1
2	Substructure-earthworks		Completion Half the length of the road	2	122,938.61	245,877.23	2/3-2.3-1
3	Superstructure-pavement structure		Completion Half the length of the road	2	459,472.96	918,945.91	2/3-2.3-1
4	Dewatering		Completion of the works	1	192,576.65	192,576.65	2/3-2.3-1
Summery(USD)						5,878,175.31	

6 Drainage of the Route and Stations, Reconstruction of Existing Drainage Network

No.	Item	Description	Unit	No.of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
A	Water engineering installtions of SS and TK in Novi Beograd						
	Drainage works		Completion of drainage works	1	3,171.05	3,171.05	3/3
B	Water engineering installtions of underpass in the Tosin Bunar						
	Drainage works		Completion of drainage works	1	13,481.49	13,481.49	3/3
C	Water engineering installtions in Novi Beograd						
	Drainage works		Completion of drainage works	1	62,577.90	62,577.90	3/3
D	Water engineering installtions of Station building at Zemun station						
	Drainage works		Completion of drainage works	1	51,263.49	51,263.49	3/3
E	Water engineering installtions of central post building in Zemun						
	Drainage works		Completion of drainage works	1	62,568.84	62,568.84	3/3
F	Water engineering installtions of underpass in Altina stopping place						
	Drainage works		Completion of drainage works	1	11,599.25	11,599.25	3/3
G	Water engineering installtions in Zemun Polje						
	Drainage works		Completion of drainage works	1	17,089.79	17,089.79	3/3
H	Water engineering installtions of underpass in stop-station Kamendin						
	Drainage works		Completion of drainage works	1	8,462.17	8,462.17	3/3
I	Subway at Zemun station						
	Drainage works		Completion of drainage works	1	62,577.90	62,577.90	3/3
J	Drainage of access road to Zemun station						
	Drainage works		Completion of drainage works	1	124,837.89	124,837.89	3/1
K	Drainage of road with a crossover at km 13+288.51						
	Drainage works		Completion of drainage works	1	152,620.20	152,620.20	3/1
L	Drainage of road with a underpass at km 15+915.43						

6 Drainage of the Route and Stations, Reconstruction of Existing Drainage Network

No.	Item	Description	Unit	No.of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
	Drainage works		Completion of drainage works	1	174,427.41	174,427.41	3/1
M	Drainage works of the subway area at Batajnica station						
	Drainage works of the subway area at Batajnica station		Completion of drainage works	1	16,318.38	16,318.38	
N	Drainage works of access road to Nova Pazova station						
	Drainage works of access road to Nova Pazova station		Completion of drainage works	1	67,106.62	67,106.62	3/1
O	Drainage works of road grade separation with a crossover at km 26+392.67 of the railway Line						
	Drainage works of road grade separation with a crossover at km 26+392.67 of the railway Line		Completion of drainage works	1	105,684.53	105,684.53	3/1
P	Drainage works of road with a crossover at km 34+694.44						
	Drainage works of road with a crossover at km 34+694.44		Completion of drainage works	1	174,143.46	174,143.46	3/1
Q	Drainage works in Batajnica railway station						
	Drainage works in Batajnica railway station		Completion of drainage works	1	47,561.35	47,561.35	3/3
R	Drainage works in the Nova Pazova railway station						
	Drainage works in the Nova Pazova railway station		Completion of drainage works	1	74,667.47	74,667.47	3/3
S	Drainage works in Stara Pazova railway station						
	Drainage works in Stara Pazova railway station		Completion of drainage works	1	47,551.42	47,551.42	3/3
T	Relocation of channel at km 26+446 of the railway						
	Drainage work		Completion of drainage works	1	322,239.79	322,239.79	3/2
Summary(USD)						1,599,950.38	

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Electric traction fixed installations-OCS Belgrade Centre - Novi Belgrade						
A-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/suspension/brackets,disconnector,earthing,all kinds of calmps and connections.	left or right open track	2	29,780.87	59,561.74	4/1.2.5.1.2.1
A-2	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with breckets and insulators.	left or right open track	2	43,998.34	87,996.67	4/1.2.5.1.2.1
2	Twin cantilever	Material supply and assembly installation with breckets and insulators.	left or right open track	2	10,951.97	21,903.93	4/1.2.5.1.2.1
3	Anchor tie	Material supply and assembly installation with ties and brackets.	left or right open track	2	2,499.91	4,999.81	4/1.2.5.1.2.1
4	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right open track	2	1,488.04	2,976.08	4/1.2.5.1.2.1
5	Fixed end	Catenary end on a pole with brackets but without pulleys and balance weights.	left or right open track	2	967.23	1,934.45	4/1.2.5.1.2.1
6	Automatic tensioning	Catenary end on a pole with brackets,pulleys and balance weights.	left or right open track	2	11,829.91	23,659.82	4/1.2.5.1.2.1
7	OCS Catenary	Installation and material suppy of Ri100 contact line,Bzll 65 messenger wire,droppers,cut-in insulators and connecting strand,including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right open track	2	111,626.73	223,253.46	4/1.2.5.1.2.1
8	Disconnectors	Hand drive,leverage and brackets.	left or right open track	1	5,319.74	5,319.74	4/1.2.5.1.2.1
A-3	Return conductor and earthing	Some/all of the followings based on the design:connection of TSP,cross bond,all kinds of metalltic constructions' earthing such as OCS poles ,fences and sound barriers.Double earthing with separate earthing and to rails via spark gap,earthing in the tunnel.	left or right open track	2	8,284.66	16,569.31	4/1.2.5.1.2.1
A-4	Miscellaneous	Other relevant works.					

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Completion of works	Inspect and test completed works and energize the OCS.	left or right open track	2	2,232.06	4,464.12	4/1.2.5.1.2.1
B	Electric traction fixed installations-OCS Novi Belgrade						
B-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/suspension/brackets,disconnector,earthing,all kinds of calmps and connections	left or right station	2	62,098.58	124,197.17	4/1.2.5.1.2.2
B-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts,average volume 3.0m3.	left or right station	2	7,805.78	15,611.55	4/1.2.5.1.2.2
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	left or right station	2	1,864.47	3,728.93	4/1.2.5.1.2.2
3	OCS poles and portals	Supply and erect poles and portals.	left or right station	2	9,191.83	18,383.66	4/1.2.5.1.2.2
B-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with brackets and insulators.	left or right station	2	61,946.63	123,893.26	4/1.2.5.1.2.2
2	Twin cantilever	Material supply and assembly installation with brackets and insulators.	left or right station	2	54,714.77	109,429.53	4/1.2.5.1.2.2
3	Anchor tie	Material supply and assembly installation with ties and brackets.	left or right station	2	9,366.93	18,733.86	4/1.2.5.1.2.2
4	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right station	2	2,349.17	4,698.33	4/1.2.5.1.2.2
5	Fixed end	Catenary end on a pole with brackets but without pulleys and balance weights.	left or right station	2	4,832.15	9,664.29	4/1.2.5.1.2.2
6	Automatic tensioning	Catenary end on a pole with brackets,pulleys and balance weights.	left or right station	2	35,460.52	70,921.04	4/1.2.5.1.2.2
7	Drop arm	Supply and installation of drop arms on portals.	left or right station	2	1,018.47	2,036.94	4/1.2.5.1.2.2

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	OCS Catenary	Installation and material supply of Ri100 contact line, BzII 65 messenger wire, droppers, cut-in insulators and connecting strand, including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right station	2	195,632.14	391,264.27	4/1.2.5.1.2.2
9	Section insulator	Supply and installation of section insulator.	station	1	28,621.18	28,621.18	4/1.2.5.1.2.2
10	Disconnectors	Hand drive, leverage and brackets.	station	1	21,261.44	21,261.44	4/1.2.5.1.2.2
11	Disconnectors	Motor drive, leverage and brackets.	station	1	52,038.50	52,038.50	4/1.2.5.1.2.2
B-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metallic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap, earthing in the tunnel.	left or right station	2	9,277.72	18,555.44	4/1.2.5.1.2.2
B-5	Miscellaneous	Other relevant works.					
1	Completion of works	Inspect and test completed works and energize the OCS.	left or right station	2	4,956.05	9,912.10	4/1.2.5.1.2.2
C	Electric traction fixed installations-OCS Novi Belgrade - Zemun						
C-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS, some/all of the followings based on the design: foundations, poles, portals, drop arms, catenary with automatic/fixed tensioning, cantilevers with brackets, insulators, anchor ties, bypass feeder with tensioning/suspension/brackets, disconnector, earthing, all kinds of clamps and connections	left or right open track	2	40,166.40	80,332.79	4/1.2.5.1.2.3
C-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport, excavated material, cast foundations for OCS poles and insert holding down bolts, average volume 3.0m ³ .	left or right open track	2	2,232.17	4,464.34	4/1.2.5.1.2.3
2	OCS poles and portals	Supply and erect poles and portals.	left or right open track	2	106,191.73	212,383.45	4/1.2.5.1.2.3
C-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	28,000.33	56,000.66	4/1.2.5.1.2.3

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Twin cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	5,476.25	10,952.51	4/1.2.5.1.2.3
3	Upper and lower extended cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	547.63	1,095.25	4/1.2.5.1.2.3
4	Cantilever in the tunnel	Material supply and assembly installation with brackets and insulators.	left or right open track	2	76,500.90	153,001.80	4/1.2.5.1.2.3
5	Anchor tie	Material supply and assembly installation with ties and brackets.	left or right open track	2	2,500.03	5,000.06	4/1.2.5.1.2.3
6	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right open track	2	2,351.22	4,702.44	4/1.2.5.1.2.3
7	Mid-point in the tunnel	Material supply and assembly installation with ropes and clamps.	left or right open track	2	1,988.12	3,976.24	4/1.2.5.1.2.3
8	Automatic tensioning	Catenary end on a pole with brackets,pulleys and balance weights.	left or right open track	2	7,887.00	15,774.00	4/1.2.5.1.2.3
9	Drop arm	Supply and installation of drop arms on portals.	left or right open track	2	31,090.40	62,180.79	4/1.2.5.1.2.3
10	OCS Catenary	Installation and material supply of Ri100 contact line,Bzll 65 messenger wire,droppers,cut-in insulators and connecting strand,including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right open track	2	179,759.06	359,518.12	4/1.2.5.1.2.3
C-4	Return conductor and earthing	Some/all of the followings based on the design:connection of TSP,cross bond,all kinds of metalltic constructions' earthing such as OCS poles ,fences and sound barriers.Double earthing with separate earthing and to rails via spark gap,earthing in the tunnel.	left or right open track	2	12,775.45	25,550.90	4/1.2.5.1.2.3
C-5	Miscellaneous	Other relevant works.					
1	Compeletion of works	Inspect and test completed works and energize the OCS.	left or right open track	2	4,960.38	9,920.75	4/1.2.5.1.2.3
D	Electric traction fixed installations-OCS Zemun						

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
D-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/suspension/brackets,disconnector,earthing,all kinds of calmps and connections.	left or right station	2	102,769.76	205,539.52	4/1.2.5.1.2.4
D-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts,average volume 3.0m3.	left or right station	2	16,178.06	32,356.13	4/1.2.5.1.2.4
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	left or right station	2	2,798.25	5,596.49	4/1.2.5.1.2.4
3	OCS poles	Supply and erect poles.	left or right station	2	19,723.11	39,446.21	4/1.2.5.1.2.4
4	OCS portals	Supply and erect portals.	station	1	4,165.39	4,165.39	4/1.2.5.1.2.4
D-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with breckets and insulators.	left or right station	2	94,637.59	189,275.18	4/1.2.5.1.2.4
2	Twin cantilever	Material supply and assembly installation with breckets and insulators.	left or right station	2	73,905.86	147,811.73	4/1.2.5.1.2.4
3	Anchor tie	Material supply and assembly installation with ties and brackets.	left or right station	2	14,370.58	28,741.17	4/1.2.5.1.2.4
4	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right station	2	7,051.40	14,102.81	4/1.2.5.1.2.4
5	Fixed end	Catenary end on a pole with brackets but without pulleys and balance weights.	left or right station	2	5,318.31	10,636.61	4/1.2.5.1.2.4
6	Automatic tensioning	Catenary end on a pole with brackets,pulleys and balance weights.	left or right station	2	51,249.13	102,498.27	4/1.2.5.1.2.4
7	Drop arm	Supply and installation of drop arms on portals.	left or right station	2	4,585.64	9,171.29	4/1.2.5.1.2.4

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	OCS Catenary	Installation and material supply of Ri100 contact line, BzII 65 messenger wire, droppers, cut-in insulators and connecting strand, including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right station	2	339,069.92	678,139.85	4/1.2.5.1.2.4
9	Bypass feeder	Installation and material supply of Cu150mm ² bypass feeder along with tensioning, brackets, suspension and connections to OCS.	left or right station	2	55,302.95	110,605.90	4/1.2.5.1.2.4
10	Section insulator	Supply and installation of section insulator.	station	1	40,091.85	40,091.85	4/1.2.5.1.2.4
11	Disconnectors	Hand drive, leverage and brackets.	station	1	42,546.45	42,546.45	4/1.2.5.1.2.4
12	Disconnectors	Motor drive, leverage and brackets.	station	1	66,943.72	66,943.72	4/1.2.5.1.2.4
D-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metallic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap, earthing in the tunnel.	left or right station	2	37,491.61	74,983.21	4/1.2.5.1.2.4
D-5	Miscellaneous	Other relevant works.					
1	Completion of works	Inspect and test completed works and energize the OCS.	left or right station	2	8,925.83	17,851.66	4/1.2.5.1.2.4
E	Electric traction fixed installations-OCS Zemun - Zemun Polje						
E-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS, some/all of the followings based on the design: foundations, poles, portals, drop arms, catenary with automatic/fixed tensioning, cantilevers with brackets, insulators, anchor ties, bypass feeder with tensioning/suspension/brackets, disconnector, earthing, all kinds of calmps and connections.	left or right open track	2	25,884.66	51,769.32	4/1.2.5.1.2.5
E-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport, excavated material, cast foundations for OCS poles and insert holding down bolts, average volume 3 m ³ .	left or right open track	2	13,930.86	27,861.73	4/1.2.5.1.2.5
2	Foundations of anchors	Mark location, excavate and transport, excavated material, construct anchor foundations and insert anchor loop.	left or right open track	2	1,552.83	3,105.65	4/1.2.5.1.2.5
3	OCS poles	Supply and erect poles.	left or right open track	2	16,243.55	32,487.10	4/1.2.5.1.2.5

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
E-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	51,925.35	103,850.70	4/1.2.5.1.2.5
2	Twin cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	10,936.66	21,873.32	4/1.2.5.1.2.5
3	Upper and lower extended cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	410.12	820.25	4/1.2.5.1.2.5
4	Anchor tie	Material supply and assembly installation with ties and brackets.	left or right open track	2	4,992.82	9,985.64	4/1.2.5.1.2.5
5	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right open track	2	3,521.72	7,043.45	4/1.2.5.1.2.5
6	Automatic tensioning	Catenary end on a pole with brackets,pulleys and balance weights.	left or right open track	2	15,751.16	31,502.33	4/1.2.5.1.2.5
7	OCS Catenary	Installation and material supply of Ri100 contact line,BzII 65 messenger wire,droppers,cut-in insulators and connecting strand,including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right open track	2	145,510.05	291,020.10	4/1.2.5.1.2.5
8	Bypass feeder tensioning	Installation and material supply.	left or right open track	2	572.09	1,144.19	4/1.2.5.1.2.5
9	Bypass feeder suspensioing fittings	Installation and material supply.	left or right open track	2	1,337.36	2,674.73	4/1.2.5.1.2.5
10	Neutral Section	Supply and installation of neutral section made of two section insulators.	left or right open track	2	9,153.51	18,307.01	4/1.2.5.1.2.5
E-4	Return conductor and earthing	Some/all of the followings based on the design:connection of TSP,cross bond,all kinds of metallic constructions' earthing such as OCS poles ,fences and sound barriers.Double earthing with separate earthing and to rails via spark gap,earthing in the tunnel.	left or right open track	2	36,443.14	72,886.28	4/1.2.5.1.2.5
E-5	Miscellaneous	Other relevant works.					4/1.2.5.1.2.5
1	Compeletion of works	Inspect and test completed works and energize the OCS.	left or right open track	2	3,467.24	6,934.47	4/1.2.5.1.2.5
F	Electric traction fixed installations-OCS Zemun Polje						

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
F-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/suspension/brackets,disconnector,earthing,all kinds of calmps and connections.	left or right station	2	56,411.80	112,823.61	4/1.2.5.1.2.6
F-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts,average volume 3.0 m3.	left or right station	2	13,924.16	27,848.33	4/1.2.5.1.2.6
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	left or right station	2	6,829.15	13,658.31	4/1.2.5.1.2.6
3	Foundations of portal poles	Mark location, excavate and transport,excavated material, cast foundations for rigid portal poles,average volume 5.5 m3.	station	1	68,618.28	68,618.28	4/1.2.5.1.2.6
4	OCS poles	Supply and erect poles.	left or right station	2	15,881.06	31,762.13	4/1.2.5.1.2.6
5	OCS portals	Supply and erect portals.	staion	1	99,808.41	99,808.41	4/1.2.5.1.2.6
6	Fences	Supply and erect safety wire fences.	left or right station	2	1,033.73	2,067.46	4/1.2.5.1.2.6
F-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with breckets and insulators.	left or right station	2	35,265.64	70,531.28	4/1.2.5.1.2.6
2	Twin cantilever	Material supply and assembly installation with breckets and insulators.	left or right station	2	36,893.47	73,786.93	4/1.2.5.1.2.6
3	Anchor tie	Material supply and assembly installation with ties and brackets.	left or right station	2	6,861.83	13,723.66	4/1.2.5.1.2.6
4	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right station	2	1,485.24	2,970.49	4/1.2.5.1.2.6
5	Fixed end	Catenary end on a pole with brackets but without pulleys and balance weights.	left or right station	2	5,309.75	10,619.50	4/1.2.5.1.2.6
6	Automatic tensioning	Catenary end on a pole with brackets,pulleys and balance weights.	left or right station	2	23,615.38	47,230.77	4/1.2.5.1.2.6
7	Drop arm	Supply and installation of drop arms on portals.	left or right station	2	12,208.71	24,417.42	4/1.2.5.1.2.6

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	OCS Catenary	Installation and material supply of Ri100 contact line, BzII 65 messenger wire, droppers, cut-in insulators and connecting strand, including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right station	2	143,240.67	286,481.34	4/1.2.5.1.2.6
9	Section insulator	Supply and installation of section insulator.	station	1	22,872.76	22,872.76	4/1.2.5.1.2.6
10	Disconnectors	Hand drive, leverage and brackets.	station	1	74,262.21	74,262.21	4/1.2.5.1.2.6
F-4	Return conductor and earthing	Some/all of the followings based on the design: connection of TSP, cross bond, all kinds of metallic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap, earthing in the tunnel.	left or right station	2	26,192.28	52,384.56	4/1.2.5.1.2.6
F-5	Miscellaneous	Other relevant works.					
1	Completion of works	Inspect and test completed works and energize the OCS.	left or right station	2	4,950.81	9,901.63	4/1.2.5.1.2.6
G	Electric traction fixed installations-OCS Zemun Polje - Batajnica						
G-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS, some/all of the followings based on the design: foundations, poles, portals, drop arms, catenary with automatic/fixed tensioning, cantilevers with brackets, insulators, anchor ties, bypass feeder with tensioning/suspension/brackets, disconnector, earthing, all kinds of clamps and connections.	left or right open track	2	66,337.72	132,675.44	4/1.2.5.1.2.7
G-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport, excavated material, cast foundations for OCS poles and insert holding down bolts, average volume 3.0 m ³ .	left or right open track	2	4,458.78	8,917.56	4/1.2.5.1.2.7
2	OCS poles	Supply and erect poles.	left or right open track	2	3,415.42	6,830.85	4/1.2.5.1.2.7
3	Fences	Supply and erect safety wire fences.	left or right open track	2	2,586.09	5,172.18	4/1.2.5.1.2.7
G-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	101,208.35	202,416.69	4/1.2.5.1.2.7

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Twin cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	21,877.74	43,755.49	4/1.2.5.1.2.7
3	Upper and lower extended cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	546.94	1,093.89	4/1.2.5.1.2.7
4	Anchor tie	Material supply and assembly installation with ties and brackets.	left or right open track	2	9,987.67	19,975.33	4/1.2.5.1.2.7
5	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right open track	2	9,393.16	18,786.32	4/1.2.5.1.2.7
6	Automatic tensioning	Catenary end on a pole with brackets,pulleys and balance weights.	left or right open track	2	31,508.71	63,017.41	4/1.2.5.1.2.7
7	OCS Catenary	Installation and material supply of Ri100 contact line,BzII 65 messenger wire,droppers,cut-in insulators and connecting strand,including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right open track	2	299,486.30	598,972.59	4/1.2.5.1.2.7
G-4	Return conductor and earthing	Some/all of the followings based on the design:connection of TSP,cross bond,all kinds of metallic constructions' earthing such as OCS poles ,fences and sound barriers.Double earthing with separate earthing and to rails via spark gap,earthing in the tunnel.	left or right open track	2	11,228.69	22,457.39	4/1.2.5.1.2.7
G-5	Miscellaneous	Other relevant works.					
1	Completion of works	Inspect and test completed works and energize the OCS.	left or right open track	2	4,954.20	9,908.40	4/1.2.5.1.2.7
H	Electric traction fixed installations-OCS Batajnica						
H-1	Dismantling and reconstruction of existing OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/suspension/brackets,disconnector,earthing,all kinds of calmps and connections.	left or right station	2	152,459.73	304,919.47	4/1.2.5.1.2.8
H-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport,excavated material, cast foundations for OCS poles and insert holding down bolts,average volume 3.6m3.	left or right station	2	39,054.66	78,109.33	4/1.2.5.1.2.8

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations and insert anchor loop.	left or right station	2	11,505.13	23,010.26	4/1.2.5.1.2.8
3	Foundations of portal poles	Mark location, excavate and transport,excavated material, cast foundations for rigid portal poles,average volume 6.7m3.	station	1	73,318.62	73,318.62	4/1.2.5.1.2.8
4	OCS poles	Supply and erect poles.	left or right station	2	44,153.49	88,306.98	4/1.2.5.1.2.8
5	OCS portals	Supply and erect portals.	station	1	204,806.52	204,806.52	4/1.2.5.1.2.8
H-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with breckets and insulators.	left or right station	2	130,640.45	261,280.90	4/1.2.5.1.2.8
2	Twin cantilever	Material supply and assembly installation with breckets and insulators.	left or right station	2	93,076.56	186,153.12	4/1.2.5.1.2.8
3	Anchor tie	Material supply and assembly installation with ties and brackets.	left or right station	2	14,372.12	28,744.23	4/1.2.5.1.2.8
4	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right station	2	5,951.19	11,902.37	4/1.2.5.1.2.8
5	Fixed end	Catenary end on a pole with brackets but without pulleys and balance weights.	left or right station	2	6,769.47	13,538.95	4/1.2.5.1.2.8
6	Automatic tensioning	Catenary end on a pole with brackets,pulleys and balance weights.	left or right station	2	76,881.89	153,763.79	4/1.2.5.1.2.8
7	Drop arm	Supply and installation of drop arms on portals.	left or right station	2	37,708.21	75,416.41	4/1.2.5.1.2.8
8	OCS Catenary	Installation and material supply of Ri100 contact line,Bzll 65 messenger wire,droppers,cut-in insulators and connecting strand,including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right station	2	428,536.28	857,072.56	4/1.2.5.1.2.8
9	Bypass feeder	Installation and material supply of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	left or right station	2	46,786.79	93,573.58	4/1.2.5.1.2.8
10	Section insulator	Supply and installation of section insulator.	station	1	60,144.18	60,144.18	4/1.2.5.1.2.8
11	Disconnectors	Motor drive,leverage and brackets.	station	1	119,023.74	119,023.74	4/1.2.5.1.2.8

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
H-4	Return conductor and earthing	Some/all of the followings based on the design:connection of TSP,cross bond,all kinds of metalltic constructions' earthing such as OCS poles ,fences and sound barriers.Double earthing with separate earthing and to rails via spark gap,earthing in the tunnel.	left or right station	2	33,475.43	66,950.85	4/1.2.5.1.2.8
H-5	Miscellaneous	Other relevant works.					
1	Compeletion of works	Inspect and test completed works and energize the OCS.	left or right station	2	12,398.31	24,796.61	4/1.2.5.1.2.8
I	Electric traction fixed installations-OCS Batajnica - Nova Pazova						
I-1	Dismantling exsiting OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunsuspension/brackets,disconnetor,earthing,all kinds of calmps and connections.	left or right open track	2	51,183.91	102,367.83	4/1.2.5.1.2.9
I-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport,excavated material, cast foundations for OCS masts of concrete C 25 (with steel bar), and insert 6 holding down bolts M39X1360 mm, average volume 1,45 m3.	left or right open track	2	155,536.17	311,072.34	4/1.2.5.1.2.9
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations of concrete C 25, average volume 1,41 m3 and insert anchor loop and anchor baseboard,install anchor tie with bracket.	left or right open track	2	32,120.30	64,240.61	4/1.2.5.1.2.9
3	Foundations of portal poles	Mark location, excavate and transport,excavated material, cast foundations for rigid portal masts of concrete C25 (with steel bar), average volume 4 m3.	open track	1	59,830.77	59,830.77	4/1.2.5.1.2.9
4	OCS poles	Supply and errect poles.	left or right open track	2	196,431.46	392,862.91	4/1.2.5.1.2.9
5	OCS portals	Supply and errect portals.	open track	1	216,725.65	216,725.65	4/1.2.5.1.2.9
6	Fences	Supply and erect safety wire fences.	left and right side open track	1	25,743.92	25,743.92	4/1.2.5.1.2.9

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
I-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	130,757.65	261,515.30	4/1.2.5.1.2.9
2	Twin cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	56,731.97	113,463.93	4/1.2.5.1.2.9
3	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right open track	2	38,663.55	77,327.10	4/1.2.5.1.2.9
4	Separate automatic tensioning	Separate catenary end on a pole with brackets,pulleys and balance weights.	left or right open track	2	87,958.39	175,916.77	4/1.2.5.1.2.9
5	Drop arm	Supply and installation of drop arms on portals.	left or right open track	2	14,588.22	29,176.44	4/1.2.5.1.2.9
6	OCS Catenary	Installation and material supply of Ri100 contact line,BzII 65 messenger wire,droppers,cut-in insulators and connecting strand,including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right open track	2	767,275.22	1,534,550.45	4/1.2.5.1.2.9
7	Bypass feeder	Installation and material supply of ACSR240 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	left or right open track	2	44,942.50	89,885.01	4/1.2.5.1.2.9
8	Neutral section	Supply and installation of neutral section made of two section insulators.	left or right open track	2	1,835.45	3,670.89	4/1.2.5.1.2.9
9	Automatic neutral section passing device	Supply and installation of automatic neutral section passing device.	set	2	16,092.33	32,184.66	4/1.2.5.1.2.9
10	Disconnectors	Hand drive,leverage and brackets.	left or right open track	2	24,947.76	49,895.53	4/1.2.5.1.2.9
11	Arresters	Zink-Oxide arrester,leverage and brackets.	left or right open track	2	7,723.18	15,446.35	4/1.2.5.1.2.9
I-4	Return conductor and earthing	Return circuits and kinds of earthing.					
1	Return wire	Return wire of ACSR-240 with brackets,suspension and tensioning.	left or right open track	2	39,109.54	78,219.08	4/1.2.5.1.2.9

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Other works of return conductor and earthing	Some/all of the followings based on the design:boosting wire,connection of TSP,cross bond,separate grounding,all kinds of metalltic constructions' earthing such as OCS poles ,fences and sound barriers.Double earthing with separate earthing and to rails via spark gap,earthing in the tunnel.	left or right open track	2	127,460.65	254,921.30	4/1.2.5.1.2.9
I-5	Miscellaneous	Other relevant works.					
1	Compeletion of works	Inspect and test completed works and energize the OCS.	left or right open track	2	19,864.13	39,728.27	4/1.2.5.1.2.9
J	Electric traction fixed installations-OCS Nova Pazova						
J-1	Dismantling exsiting OCS	Dismantling and reconstruction of existing OCS,some/all of the followings based on the design: foundations,poles,portals,drop arms,catenary with automatic/fixed tensioning,cantilevers with brackets,insulators,anchor ties,bypass feeder with tensioning/sunspension/brackets,disconnector,earthing,all kinds of calmps and connections.	left or right station	2	64,304.24	128,608.48	4/1.2.5.1.2.10
J-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport,excavated material, cast foundations for OCS masts of concrete C 25 (with steel bar), and insert 6 holding down bolts M39X1360 mm, average volume 1,45 m3.	left or right station	2	43,999.48	87,998.95	4/1.2.5.1.2.10
2	Foundations of anchors	Mark location, excavate and transport,excavated material, construct anchor foundations of concrete C 25, average volume 1,41 m3 and insert anchor loop and anchor baseboard,install anchor tie with bracket.	left or right station	2	19,634.65	39,269.31	4/1.2.5.1.2.10
3	Foundations of portal poles	Mark location, excavate and transport,excavated material, cast foundations for rigid portal masts of concrete C25 (with steel bar), average volume 4 m3.	station	1	95,579.12	95,579.12	4/1.2.5.1.2.10
4	OCS poles	Supply and errect poles.	left or right station	2	61,759.91	123,519.83	4/1.2.5.1.2.10
5	OCS portals	Supply and errect portals.	station	1	318,914.40	318,914.40	4/1.2.5.1.2.10
J-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with breckets and insulators.	left or right station	2	66,695.35	133,390.71	4/1.2.5.1.2.10

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Twin cantilever	Material supply and assembly installation with brackets and insulators.	left or right station	2	76,872.65	153,745.30	4/1.2.5.1.2.10
3	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right station	2	34,742.63	69,485.26	4/1.2.5.1.2.10
4	Separate fixed end	Separate catenary end on a pole with brackets but without pulleys and balance weights.	left or right station	2	2,441.84	4,883.67	4/1.2.5.1.2.10
5	Separate automatic tensioning	Separate catenary end on a pole with brackets,pulleys and balance weights.	left or right station	2	61,474.32	122,948.64	4/1.2.5.1.2.10
6	Drop arm	Supply and installation of drop arms on portals.	left or right station	2	24,846.76	49,693.53	4/1.2.5.1.2.10
7	OCS Catenary	Installation and material supply of Ri100 contact line,BzII 65 messenger wire,droppers,cut-in insulators and connecting strand,including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right station	2	319,588.72	639,177.43	4/1.2.5.1.2.10
8	Section insulators	Supply and installation of section insulators.	station	1	35,711.27	35,711.27	4/1.2.5.1.2.10
9	Disconnectors	Hand drive,leverage and brackets.	station	1	6,227.16	6,227.16	4/1.2.5.1.2.10
10	Disconnectors	Motor drive,leverage and brackets.	station	1	99,729.77	99,729.77	4/1.2.5.1.2.10
J-4	Return conductor and earthing	Return circuits and kinds of earthing.					
1	Return wire	Return wire of ACSR-240 with brackets,suspension and tensioning.	left or right station	2	10,485.74	20,971.48	4/1.2.5.1.2.10
2	Other works of return conductor and earthing	Some/all of the followings based on the design:boosting wire,connection of TSP,cross bond,separate grounding,all kinds of metalltic constructions' earthing such as OCS poles ,fences and sound barriers.Double earthing with separate earthing and to rails via spark gap,earthing in the tunnel.	left or right station	2	40,197.94	80,395.88	4/1.2.5.1.2.10
J-5	Miscellaneous	Other relevant works.					
1	Completion of works	Inspect and test completed works and energize the OCS.	left or right station	2	9,916.49	19,832.98	4/1.2.5.1.2.10
K	Electric traction fixed installations-OCS Nova Pazova - Stara Pazova						

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
K-1	Dismantling existing OCS	Dismantling and reconstruction of existing OCS, some/all of the followings based on the design: foundations, poles, portals, drop arms, catenary with automatic/fixed tensioning, cantilevers with brackets, insulators, anchor ties, bypass feeder with tensioning/suspension/brackets, disconnector, earthing, all kinds of clamps and connections.	left or right open track	2	73,706.68	147,413.37	4/1.2.5.1.2.11
K-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport, excavated material, cast foundations for OCS masts of concrete C 25 (with steel bar), and insert 6 holding down bolts M39X1360 mm, average volume 1,45 m ³ .	left or right open track	2	240,263.09	480,526.17	4/1.2.5.1.2.11
2	Foundations of anchors	Mark location, excavate and transport, excavated material, construct anchor foundations of concrete C 25, average volume 1,41 m ³ and insert anchor loop and anchor baseboard, install anchor tie with bracket.	left or right open track	2	37,919.07	75,838.14	4/1.2.5.1.2.11
3	OCS poles	Supply and erect poles.	left or right open track	2	299,120.86	598,241.71	4/1.2.5.1.2.11
4	Fences	Supply and erect safety wire fences.	left or right open track	2	12,837.81	25,675.61	4/1.2.5.1.2.11
K-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	192,781.04	385,562.08	4/1.2.5.1.2.11
2	Twin cantilever	Material supply and assembly installation with brackets and insulators.	left or right open track	2	60,622.97	121,245.94	4/1.2.5.1.2.11
3	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right open track	2	30,848.77	61,697.54	4/1.2.5.1.2.11
4	Separate automatic tensioning	Separate catenary end on a pole with brackets, pulleys and balance weights.	left or right open track	2	87,725.00	175,450.00	4/1.2.5.1.2.11
5	Drop arm	Supply and installation of drop arms on portals.	left or right open track	2	2,567.56	5,135.12	4/1.2.5.1.2.11

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	OCS Catenary	Installation and material supply of Ri100 contact line, BzII 65 messenger wire, droppers, cut-in insulators and connecting strand, including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right open track	2	845,436.03	1,690,872.05	4/1.2.5.1.2.11
K-4	Return conductor and earthing	Return circuits and kinds of earthing.					
1	Return wire	Return wire of ACSR-240 with brackets, suspension and tensioning.	left or right open track	2	48,452.49	96,904.98	4/1.2.5.1.2.11
2	Other works of return conductor and earthing	Some/all of the followings based on the design: boosting wire, connection of TSP, cross bond, separate grounding, all kinds of metallic constructions' earthing such as OCS poles, fences and sound barriers. Double earthing with separate earthing and to rails via spark gap, earthing in the tunnel.	left or right open track	2	121,381.74	242,763.49	4/1.2.5.1.2.11
K-5	Miscellaneous	Other relevant works.					
1	Completion of works	Inspect and test completed works and energize the OCS.	left or right open track	2	19,811.43	39,622.86	4/1.2.5.1.2.11
L	Electric traction fixed installations-OCS Stara Pazova						
L-1	Dismantling existing OCS	Dismantling and reconstruction of existing OCS, some/all of the followings based on the design: foundations, poles, portals, drop arms, catenary with automatic/fixed tensioning, cantilevers with brackets, insulators, anchor ties, bypass feeder with tensioning/suspension/brackets, disconnector, earthing, all kinds of clamps and connections.	left or right station	2	105,797.64	211,595.28	4/1.2.5.1.2.12
L-2	Civil works	OCS related civil works.					
1	Foundations of poles	Mark location, excavate and transport, excavated material, cast foundations for OCS masts of concrete C 25 (with steel bar), and insert 6 holding down bolts M39X1360 mm, average volume 1,45 m3.	left or right station	2	83,333.41	166,666.81	4/1.2.5.1.2.12
2	Foundations of anchors	Mark location, excavate and transport, excavated material, construct anchor foundations of concrete C 25, average volume 1,41 m3 and insert anchor loop and anchor baseboard, install anchor tie with bracket.	left or right station	2	30,758.46	61,516.91	4/1.2.5.1.2.12

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Foundations of portal poles	Mark location, excavate and transport,excavated material, cast foundations for rigid portal masts of concrete C25 (with steel bar), average volume 4 m3.	station	1	83,624.93	83,624.93	4/1.2.5.1.2.12
4	OCS poles	Supply and erect poles.	left or right station	2	113,547.49	227,094.99	4/1.2.5.1.2.12
5	OCS portals	Supply and erect portals.	station	1	372,766.32	372,766.32	4/1.2.5.1.2.12
L-3	Electrical works	New OCS electrical works according to new alignment and station plan.					
1	Single cantilever	Material supply and assembly installation with breckets and insulators.	left or right station	2	91,757.77	183,515.55	4/1.2.5.1.2.12
2	Twin cantilever	Material supply and assembly installation with breckets and insulators.	left or right station	2	94,060.20	188,120.39	4/1.2.5.1.2.12
3	Mid-point	Material supply and assembly installation with ropes and clamps.	left or right station	2	13,509.92	27,019.85	4/1.2.5.1.2.12
4	Separate fixed end	Separate catenary end on a pole with brackets but without pulleys and balance weights.	left or right station	2	5,493.69	10,987.37	4/1.2.5.1.2.12
5	Separate automatic tensioning	Separate catenary end on a pole with brackets,pulleys and balance weights.	left or right station	2	79,031.98	158,063.96	4/1.2.5.1.2.12
6	Drop arm	Supply and installation of drop arms on portals.	left or right station	2	41,979.05	83,958.09	4/1.2.5.1.2.12
7	OCS Catenary	Installation and material supply of Ri100 contact line,BzII 65 messenger wire,droppers,cut-in insulators and connecting strand,including carry interventions on existing 25 kV network, ensure safety of site during construction and make provisional connections for phased opening to traffic of new reconstructed track sections.	left or right station	2	346,969.68	693,939.35	4/1.2.5.1.2.12
8	Bypass feeder	Installation and material supply of Cu150mm2 bypass feeder along with tensioning,brackets,suspension and connections to OCS.	left or right station	2	38,514.41	77,028.82	4/1.2.5.1.2.12
9	Section insulators	Supply and installation of section insulators.	station	1	46,420.88	46,420.88	4/1.2.5.1.2.12
10	Disconnectors	Hand drive,leverage and brackets.	station	1	80,946.50	80,946.50	4/1.2.5.1.2.12
11	Disconnectors	Motor drive,leverage and brackets.	station	1	83,101.38	83,101.38	4/1.2.5.1.2.12
12	Arresters	Zink-Oxide arrester,leverage and brackets.	left or right station	2	7,710.44	15,420.87	4/1.2.5.1.2.12

7 Overhead contact system

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
L-4	Return conductor and earthing	Return circuits and kinds of earthing.					
1	Return wire	Return wire of ACSR-240 with brackets,suspension and tensioning.	left or right station	2	10,581.03	21,162.06	4/1.2.5.1.2.12
2	Other works of return conductor and earthing	Some/all of the followings based on the design:boosting wire,connection of TSP,cross bond,separate grounding,all kinds of metalltic constructions' earthing such as OCS poles ,fences and sound barriers.Double earthing with separate earthing and to rails via spark gap,earthing in the tunnel.	left or right station	2	111,695.54	223,391.08	4/1.2.5.1.2.12
L-5	Miscellaneous	Other relevant works.					
1	Compeletion of works	Inspect and test completed works and energize the OCS.	left or right station	2	14,873.53	29,747.06	4/1.2.5.1.2.12
Summary (USD):						23,240,661.35	

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A RECONSTRUCTION OF "ZEMUN" ETS - ELECTRICAL PART							
A-1 DISMANTLING OF ELECTRICAL EQUIPMENTS							
1	Dismantling of 110/27.5kV equipment	Include dismantling of traction transformer, 110kV disconnecter, 110kV voltage transformer, 110kV current voltage, 110kV lighting arrester, auxiliary transformer, 25kV circuit breaker, 25kV disconnecter, 25kV voltage transformer	set	1	79,746.51	79,746.51	4.1.3.1
2	Dismantling of AC&DC system	Include dismantling of AC cabinets, DC cabinets, DC Battery, etc	set	1	5,092.71	5,092.71	4.1.3.1
3	Dismantling of control protection panel	Include dismantling of all protection cabinets (transformer, feeder, metering, communication), etc	set	1	1,354.58	1,354.58	4.1.3.1
4	Dismantling of cables	Include dismantling of electrical and control cables, etc	set	1	63,861.42	63,861.42	4.1.3.1
5	Dismantling of outdoor lighting	Include dismantling of outdoor lighting and cables	set	1	1,286.51	1,286.51	4.1.3.1
A-2 INSTALLATION WORKS							
1	Detection and reinforcement of foundation	Include reinforcement foundation of traction transformer, 110kV disconnecter, 110kV voltage transformer, 110kV current voltage, 110kV lighting arrester, lead structure	set	1	22,707.90	22,707.90	4.1.3.1
2	Detection and reinforcement of grounding grid	Include reinforcement grounding of ETS	set	1	191,460.60	191,460.60	4.1.3.1
3	Installation of 110/27.5kV equipment	Include installation of traction transformer, 110kV disconnecter, 110kV voltage transformer, 110kV current voltage, 110kV lighting arrester, auxiliary transformer, 25kV circuit breaker cabinets, 25kV disconnecter cabinets, 25kV voltage transformer cabinets, 25kV bus cabinets	set	1	74,664.01	74,664.01	4.1.3.1
4	Installation of AC&DC system	Include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	4,887.37	4,887.37	4.1.3.1
5	Installation and testing of control protection cabinets	Include installation and testing of all cabinets in integrated automation system (transformer, feeder, metering, communication), etc	set	1	18,991.32	18,991.32	4.1.3.1
6	Cable laying	Include laying of all auxiliary power supply electric cables and secondary control cables	set	1	145,024.91	145,024.91	4.1.3.1
7	Installation of outdoor lighting	Include installation of lamps, cables	set	1	3,904.91	3,904.91	4.1.3.1
8	Ancillary works	Include installation of Anti mouse board, insulation pad, etc	set	1	2,149.85	2,149.85	4.1.3.1
9	Control of OCS disconnecter	Include installation of control cabinet, cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	64,987.97	64,987.97	4.1.3.1
A-3 ELECTRICAL EQUIPMENTS							
1	Traction transformer	110/27.5kV, 10MVA, single phase, outdoor, oil immersed, natural cooling system (ONAN), secondary side load regulation	pcs	2	301,087.24	602,174.47	4.1.3.1
2	Auxiliary transformer	Single phase, 25/0.23kV, 80kVA	pcs	1	18,189.23	18,189.23	4.1.3.1
3	110kV disconnecter motor-operated	Double phase, outdoor, motor-operated, two disconnectors with earthing circuit, 1250A	pcs	3	8,041.25	24,123.74	4.1.3.1

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	110kV disconnecter manual-operated	Double phase, outdoor, manual-operated, 1250A	pcs	5	5,552.18	27,760.90	4.1.3.1
5	110kV Current transformer	2×150/5,0.2,0.5,5P20,5P20, outdoor, oil immersed	pcs	2	4,404.08	8,808.16	4.1.3.1
6	110kV Voltage transformer	110/√3 :0.1/√3 :0.1/√3 , 0.2,3P, outdoor, oil immersed, capacitive	pcs	2	3,733.60	7,467.19	4.1.3.1
7	110kV Lightening Arrester	102/266kV	pcs	4	1,723.29	6,893.14	4.1.3.1
8	25kV Air Insulation Switchgears	With vacuum circuit breaker 1250A, current transformer 800/5; voltage transformer 25/0.1; disconnecter 1250A;	set	1	228,794.31	228,794.31	4.1.3.1
9	OCS disconnecter control cabinet	Include double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	1	28,719.54	28,719.54	4.1.3.1
10	Concentrated earthing box	Include busbar, 1kV current transfromer	set	1	8,615.30	8,615.30	4.1.3.1
11	AC & DC system 2×100Ah	Include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	31,590.93	31,590.93	4.1.3.1
12	Integrated automation system	Include power meter cabinets, protection cabinets, communication mangement cabinets, etc	set	1	162,741.06	162,741.06	4.1.3.1
13	Technical service training	Include factory training, field training, warranty period service, etc	set	1	478,651.50	478,651.50	4.1.3.1
B	TSPn "BATAJNICA" - ELECTRICAL PART						
B-1	DISMANTLING OF ELECTRICAL EQUIPMENTS						
1	Dismantling of 27.5kV equipment	Include dismantling of auxiliary transformer,25kV circuit breaker,25kV disconnecter ,25kV voltage transformer	set	1	24,415.30	24,415.30	4.1.3.2
2	Dismantling of grounding system	Include grounding wires of TSPn	set	1	8,724.21	8,724.21	4.1.3.2
3	Dismantling of AC&DC system	Include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	5,372.93	5,372.93	4.1.3.2
4	Dismantling of control protection cabinet	Include dismantling of all protection cabinets(feeder,communication) , etc	set	1	1,192.35	1,192.35	4.1.3.2
5	Dismantling of cables (electrical and control)	Include dismantling of electrical and control cables, etc	set	1	14,649.63	14,649.63	4.1.3.2
B-2	INSTALLATION WORKS						
1	Installation of 27.5kV equipment	Include installation of auxiliary transformer,25kV circuit breaker cabinets,25kV disconnecter cabinets,25kV voltage transformer cabinets, 25kV bus cabinets	set	1	31,806.48	31,806.48	4.1.3.2
2	Installation of AC&DC system	Include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	4,887.37	4,887.37	4.1.3.2
3	Installation and testing of control protection cabinets	Include installation and testing of all cabinets in intergrated automation system (feeder, communication) , etc	set	1	12,330.74	12,330.74	4.1.3.2
4	Cable laying	Include laying of all auxiliary power supply electric cables and secondary control cables	set	1	48,776.14	48,776.14	4.1.3.2
5	Installation of outdoor lighting	Include installation of lamps, cables	set	1	3,010.93	3,010.93	4.1.3.2
6	Ancillary works	Include installation of Anti mouse board, insulation pad, etc	set	1	648.93	648.93	4.1.3.2

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
B-3 ELECTRICAL EQUIPMENTS							
1	Auxiliary transformer	Single phase, 25/0.23kV, 50kVA	pcs	1	16,367.25	16,367.25	4.1.3.2
2	25kV Air Insulation Switchgears	With vacuum circuit breaker 1250A, current transformer 800/5 ;voltage transformer 25/0.1;disconnector 1250A;busbar 1250A	set	1	307,101.15	307,101.15	4.1.3.2
3	AC & DC system 2×75Ah	Include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	21,060.62	21,060.62	4.1.3.2
4	Integrated automation system	Including protection cabinets, communication mangement cabinets, etc	set	1	124,449.85	124,449.85	4.1.3.2
5	Technical service training	Including factory training, field training, warranty period service, etc	set	1	54,041.30	54,041.30	4.1.3.2
C TSP "STARA PAZOVA" - ELECTRICAL PART							
C-1	DISMANTLING OF ELECTRICAL EQUIPMENTS	TSP "STARA PAZOVA"					
1	Dismantling of 27.5kV equipment	Include dismantling of auxiliary transformer,25kV circuit breaker,25kV disconnector ,25kV voltage transformer	set	1	10,996.58	10,996.58	4.1.3.3
2	Dismantling of grounding system	Include grounding wires of TSP Stara pazova	set	1	8,724.21	8,724.21	4.1.3.3
3	Dismantling of AC&DC system	Include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	5,372.93	5,372.93	4.1.3.3
4	Dismantling of control protection cabinet	Include dismantling of all protection cabinets(feeder,communication) , etc	set	1	1,192.35	1,192.35	4.1.3.3
5	Dismantling of cables (electrical and control)	Include dismantling of electrical and control cables, etc	set	1	14,649.63	14,649.63	4.1.3.3
C-2	INSTALLATION WORKS	TSP "STARA PAZOVA"					
1	Installation of 27.5kV equipment	Include installation of auxiliary transformer,25kV circuit breaker cabinets,25kV voltage transformer cabinets, 25kV bus cabinets	set	1	18,546.60	18,546.60	4.1.3.3
2	Installation of AC&DC system	Include installation of AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	4,887.37	4,887.37	4.1.3.3
3	Installation and testing of control protection cabinets	Include installation and testing of all cabinets in intergrated automation system (feeder, communication) , etc	set	1	12,330.74	12,330.74	4.1.3.3
4	Cable laying	Include laying of all auxiliary power supply electric cables and secondary control cables	set	1	48,776.14	48,776.14	4.1.3.3
5	Installation of outdoor lighting	Include installation of lamps, cables	set	1	3,010.93	3,010.93	4.1.3.3
6	Ancillary works	Include installation of Anti mouse board, insulation pad, etc	set	1	648.93	648.93	4.1.3.3
7	Control of OCS disconnector	Include installation of control cabinet, cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	71,025.71	71,025.71	4.1.3.3
C-3	ELECTRICAL EQUIPMENTS	TSP "STARA PAZOVA"					
1	Auxiliary transformer	Single phase, 25/0.23kV, 50kVA	pcs	1	16,367.25	16,367.25	4.1.3.3
2	25kV Air Insulation Switchgears	With vacuum circuit breaker 1250A, current transformer 800/5 ;voltage transformer 25/0.1;busbar 1250A	set	1	153,549.44	153,549.44	4.1.3.3

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	OCS disconnecter control cabinet	Include double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	1	28,719.54	28,719.54	4.1.3.3
4	AC & DC system 2x75Ah	Include AC power supply cabinets, DC charging cabinet, DC power supply cabinet, DC battery cabinet	set	1	21,060.62	21,060.62	4.1.3.3
5	Integrated automation system	Including protection cabinets, communication mangement cabinets, etc	set	1	124,449.85	124,449.85	4.1.3.3
6	Technical service training	Including factory training, field training, warranty period service, etc	set	1	54,041.30	54,041.30	4.1.3.3
D	TSP "NOVA PAZOVA" - ELECTRICAL PART						
D-1	DISMANTLING OF ELECTRICAL EQUIPMENTS	TSP "NOVA PAZOVA"					
1	Dismantling of 27.5kV equipment	Include dismantling of auxiliary transformer,25kV circuit breaker,25kV disconnecter ,25kV voltage transformer	set	1	15,635.50	15,635.50	4.1.3.4
2	Dismantling of grounding system	Include grounding wires of TSP Nova pazova	set	1	8,724.21	8,724.21	4.1.3.4
3	Dismantling of AC&DC system	Include dismantling of AC cabinets,DC cabinets, DC Battery, etc	set	1	5,372.93	5,372.93	4.1.3.4
4	Dismantling of control protection cabinet	Include dismantling of all protection cabinets(feeder,communication) , etc	set	1	1,192.35	1,192.35	4.1.3.4
5	Dismantling of cables (electrical and control)	Include dismantling of electrical and control cables, etc	set	1	14,649.63	14,649.63	4.1.3.4
E	REMOTE CONTROL UNIT - NOVI BEOGRAD						
E-1	INSTALLATION WORKS						
1	Grounding grid of RTU	Include installation grounding of RTU	set	1	14,714.30	14,714.30	4.1.3.5
2	Installation and testing of RTU	Include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	1	5,043.93	5,043.93	4.1.3.5
3	Ancillary works	Include Anti mouse board, insulation pad, etc.	set	1	571.78	571.78	4.1.3.5
4	Cable laying	Include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	52,497.26	52,497.26	4.1.3.5
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	Include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	3,403.46	3,403.46	4.1.3.5
E-2	ELECTRICAL EQUIPMENTS						
1	OCS disconnecter control cabinet	Including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	1	28,719.54	28,719.54	4.1.3.5
2	Technical service training	Including factory training, field training, warranty period service, etc	set	1	19,145.61	19,145.61	4.1.3.5
F	REMOTE CONTROL UNIT - ZEMUN POLJE						

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
F-1 INSTALLATION WORKS							
1	Grounding grid of RTU	Include installation grounding of RTU	set	1	14,714.30	14,714.30	4.1.3.6
2	Installation and testing of RTU	Include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	2	5,043.93	10,087.86	4.1.3.6
3	Ancillary works	Include Anti mouse board, insulation pad, etc.	set	1	571.78	571.78	4.1.3.6
4	Cable laying	Include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	49,409.19	49,409.19	4.1.3.6
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	Include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	3,403.46	3,403.46	4.1.3.6
F-2 ELECTRICAL EQUIPMENTS							
1	OCS disconnecter control cabinet	Including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	28,719.54	57,439.09	4.1.3.6
2	Technical service training	including factory training, field training, warranty period service, etc	set	1	19,145.61	19,145.61	4.1.3.6
G REMOTE CONTROL UNIT - BATAJNICA							
G-1 INSTALLATION WORKS							
1	Grounding grid of RTU	Include installation grounding of RTU	set	1	14,714.30	14,714.30	4.1.3.7
2	Installation and testing of RTU	Include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	2	5,043.93	10,087.86	4.1.3.7
3	Ancillary works	Include Anti mouse board, insulation pad, etc.	set	1	571.78	571.78	4.1.3.7
4	Cable laying	Include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	77,201.86	77,201.86	4.1.3.7
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	Include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	3,403.46	3,403.46	4.1.3.7
G-2 ELECTRICAL EQUIPMENTS							
1	OCS disconnecter control cabinet	Including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	28,719.54	57,439.09	4.1.3.7

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	Technical service training	Including factory training, field training, warranty period service, etc	set	1	19,145.61	19,145.61	4.1.3.7
H REMOTE CONTROL UNIT - NOVA PAZOVA							
H-1 INSTALLATION WORKS							
1	Grounding grid of RTU	Include installation grounding of RTU	set	1	14,714.30	14,714.30	4.1.3.8
2	Installation and testing of RTU	Include installation and testing of all cabinets in RTU box (RTU, communication, power supply) , etc	pcs	2	5,043.93	10,087.86	4.1.3.8
3	Ancillary works	Include Anti mouse board, insulation pad, etc.	set	1	571.78	571.78	4.1.3.8
4	Cable laying	Include cable laying, over rail, cable protection, protection pipe laying, cable trench, etc	set	1	64,849.56	64,849.56	4.1.3.8
5	Supply and laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	Include laying of 1 kV power supply cable in the trench and its routing through the adequate conduit to the nearest pole-mounted TS connected to the OCS and RTU.	set	1	3,403.46	3,403.46	4.1.3.8
H-2 ELECTRICAL EQUIPMENTS							
1	OCS disconnecter control cabinet	Including double power auto transfer switch, communication device, RTU host, terminals, etc	pcs	2	28,719.54	57,439.09	4.1.3.8
2	Technical service training	Including factory training, field training, warranty period service, etc	set	1	19,145.61	19,145.61	4.1.3.8
I OPERRATION CONTROL CENTER							
I-1 INSTALLATION WORKS							
1	Installation of grounding	Include cabinets and steel stent grounding to the grounding grid	set	1	3,976.38	3,976.38	4.1.4
2	Installation of equipment	Include all the sever station cabinet installation, dispatching station installation, the cable laying, cable protection, etc	set	1	33,695.41	33,695.41	4.1.4
3	Installation of LCD display	including cable laying, LCD and its control device testing, etc	set	1	9,264.22	9,264.22	4.1.4
4	Debugging of equipment	Include all the server,dispatcher workstation,maintenance work station,communication interface,clock interface debug,software debug	set	1	19,037.83	19,037.83	4.1.4
5	Controlled station system Intermodulation	Include debug between remote control main station and the controllde station	set	1	27,021.22	27,021.22	4.1.4
I-2 ELECTRICAL EQUIPMENTS							

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Historical data server	For storage of the historical and various static data storage of traction power supply systems,rack-mounted and its technical specifications are as follows: CPU: 8-core Intel Xeon CPU (dual CPU configuration) Memory: 32GB Network interface: 4 10BaseT / 100BaseTX External capacity: 4 × 900GB DVD-ROM: 1	pcs	2	44,036.26	88,072.51	4.1.4
2	Configure server	Configure and manage various types of system data. The configuration data includes all kinds of platform nodes, pictures, dot information and communication protocols of the dispatching system. As a database server, its special system architecture can ensure that after its offline does not affect the core business of main station. The configuration server can also provide maintenance functions of adding, change and so on. The configuration server uses a rack-mounted server with the following technical parameters: CPU: 8-core Intel Xeon CPU (dual CPU configuration) Memory: 32GB Network interface: 4 10BaseT / 100BaseTX External capacity: 4 × 600GB DVD-ROM: 1	pcs	1	40,589.68	40,589.68	4.1.4
3	Storage device	For the SCADA system data storage,the basic configuration indicators are as follows: Controller: Dual controller Cache: 2GB Host interface: 4 4Gbps Fiber Channel interface RAID level: 5 level Memory partition: 4,8,16 or 64 memory partitions Fan and power supply: dual redundant hot-swappable hard drive: SAS hard drive, hard drive capacity 2T	pcs	1	91,901.41	91,901.41	4.1.4

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Application and communication server	<p>the core equipment of SCADA dispatching main station system used for real-time business processing. It mainly completes the business logic processing of SCADA, realizes communication with the controlled station system. The number of equipment configuration are related to the number of controlled sites and I / O monitoring points. According to the requirements of the monitoring capacity, the system configures 2 sets of communication and application server. When there is an application and communication server failure, another server can immediately replace the fault machine to run. It can greatly improve the reliability of SCADA business processing. The communications and application servers are rack-mounted server configurations. Its technical parameters are as follows: CPU: 6-core Intel Xeon CPU (dual CPU configuration) Memory: 32GB Network interface: 5 10BaseT / 100BaseTX External capacity: 4 * 300GB DVD-ROM: 1</p>	pcs	2	38,292.35	76,584.69	4.1.4
5	Maintenance work station	<p>Maintain the system maintenance platform and anti-virus software. Through the maintenance workstations can log on the system network, online maintenance of all the equipment within the system, and regularly updated anti-virus database, carrying the system's anti-virus services. The maintenance workstation uses a world-renowned brand workstation-level computer, configure a 22-inch display. Considering the maintenance workstation can be used to replace the faulty dispatcher workstation if necessary, so the main specifications are consistent with the dispatcher workstation. Specifications are as follows: CPU: single 4 core (intel core I7) Frequency: 3.0GHz Memory: 16GB Hard drive: 1TB (SATA) DVD-ROM: 1 Graphics type: high-definition multi-screen graphics card, memory 4GB</p>	pcs	1	7,183.57	7,183.57	4.1.4

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Core switch	Constitute a redundant data processing network, responsible for the data exchange between the computer nodes and storage devices. Its technical specifications are as follows: Type: Layer 3 switch; Machine switching capacity: 5.9Tbps; Packet forwarding rate: 200Mpps; 24-port Ethernet 10 / 100Mpps ports, SFP-based Gigabit Ethernet ports are configured on-demand.	pcs	4	80,413.59	321,654.36	4.1.4
7	Firewall & IPS intrusion detection adaptive security device	mainly used to ensure the system's network security, to achieve virus protection, network management, firewall isolation, intrusion detection and other functions. The detailed technical specifications are as follows: clear text throughput: 188Mbps 168-bit 3DES IPsec VPN throughput: 130Mbps concurrent VPN tunnel: 2000 Concurrent connection: 130,000 5000 / sec Processor: 433MHz random storage memory: 32MB, or 64MB SDRAM flash memory: 16MB	pcs	1	50,123.91	50,123.91	4.1.4
8	Cables and accessories	include power supply cables, fiber, LCD cables	pcs	1	1,531.56	1,531.56	4.1.4
9	Access layer switch	For communication with the controlled station. Its technical specifications are as follows: Transmission rate: 10Mbps / 100Mbps / 1000Mbps Exchange mode: storage - forwarding Packet forwarding rate: 30 Mpps Transmission mode: support full duplex Backplane Bandwidth: 32Gbps VLAN support: support	pcs	2	12,445.32	24,890.65	4.1.4

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
10	Dispatching staff station	<p>According to SCADA system dispatching management, analysis and other operational needs, the allocation of a set of dispatcher workstation for the realization of the daily management.</p> <p>Dispatcher workstations using the world famous brand of workstation-class computer, each configuration 3 22-inch display, and the main specifications are as follows:</p> <p>CPU: single 4 core (intel core I7) Frequency: 3.0GHz Memory: 16GB Hard drive: 1TB (SATA) DVD-ROM: 1 Graphics type: high-definition multi-screen graphics card, memory 4GB System configuration data printer used to complete the system monitoring screen, data, reports and other print. The use of laser network printer, A4 format, resolution 600 * 600dpi.</p>	pcs	1	7,907.38	7,907.38	4.1.4
11	Cabinets and kits	include Server cabinets and kits	pcs	9	4,613.96	41,525.64	4.1.4
12	Column head cabinet	<p>The system has two independent AC power supply, with dual power switch, cabinet configuration ammeter, voltmeter, and not less than 10 feeders.</p> <p>The system configures on-line uninterruptible power supply system (UPS), redundant configuration. UPS has a remote communication interface for real-time monitoring UPS work status by the workstation.</p> <p>UPS capacity is 15kVA, to meet the full load of 1 hour power supply needs.</p>	pcs	2	9,572.80	19,145.61	4.1.4

8 Electrical Traction Substation - EVP, PSN, PS

No	Item	Description	Unit	No . of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	Software cost	<p>SCADA dispatching master system software, including: system software, platform software and application software.</p> <p>(1) System software: The system software includes the operating system, the database management system, the cluster management software and so on. The operating system takes advantage of the popular Windows operating system, real-time multi-tasking, multi-user features, and provide a complete debugging, diagnostic means, with a strong network management functions. The database uses a large commercial database. The system is equipped with perfect application software package to meet the needs of field operation and management. System software needs to support common development tools to meet the needs of various system development and expansion of the system.</p> <p>(2) Platform software Platform software is located in the system software, under the SCADA application software, according to user needs for the second development, mature and reliable, with good openness and large-scale monitoring system to adapt, with high reliability, portability, Scalability, maintenance, the world's leading generic software platform.</p> <p>(3) Application software SCADA dispatching master system application software should include three parts, one is based on the secondary development of platform software to achieve SCADA function of the application software, such as SCADA dispatching software, SCADA application service software, communication management software, etc. ; Second, dispatching management The application software, such as dispatching management and statistical analysis software, maintenance management software, dispatching planning management software, etc. .; third is to ensure the safe operation of SCADA system necessary for application software network management software, virus protection software.</p>	pcs	1	382,921.20	382,921.20	4.1.4
14	LCD display and its control device (55inch, 3*4=12 unit)	Used to display the line diagram, power supply facilities distribution diagram, substation main wiring diagram, catenary power supply sub-schematic diagram, catenary switch remote monitoring, and other information. It can display the dispatch center any display on the screen, and can be multi-screen display.	pcs	1	176,143.89	176,143.89	4.1.4
15	Technical service training	Include technical guidance for field installation, on-site training(including hardware and software use and maintenance),on-site debugging, and warranty service	pcs	1	153,168.25	153,168.25	4.1.4
Summary (USD):						5,845,392.10	

9 Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A Transformer station powered from OCS 25/0.23 Kv							
1	Electrical installation works for 25/0.23 kV 50 kVA	Supporting structure, foundation, complete disconnecter assembly, electrical cross connections (conductors), HV fuse, surge arrestor, insulator, transformer, cabinet, grounding, other works Transformer 25/0.23 kV 50 kVA					
1-1	construction cost	foundation, total for earthing system	set	9	2,741.68	24,675.10	4/2.1
1-2	installation cost	Supporting structure, connections, TS testing and so on	set	9	10,607.46	95,467.10	4/2.1
1-3	equipment cost	Transformer 25/0.23 kV 50 kVA, cabinet	set	9	6,381.49	57,433.42	4/2.1
2	Electrical installation works for 25/0.23 kV 100 kVA	Supporting structure, foundation, complete disconnecter assembly, electrical cross connections (conductors), HV fuse, surge arrestor, insulator, transformer, cabinet, grounding, other works					
2-1	construction cost	foundation, total for earthing system	set	16	2,741.68	43,866.84	4/2.1
2-2	installation cost	Supporting structure, connections, TS testing and so on	set	16	10,664.18	170,626.88	4/2.1
2-3	equipment cost	Transformer 25/0.23 kV 100 kVA, cabinet	set	16	8,555.92	136,894.79	4/2.1
B Distribution transformer stations 10(20)/0.4 kV							
1	Electrical installation works for distribution transformer stations 10(20)/0.4 kV	Foundation, cable trench, cable, transformer, other works	place	3	18,435.42	55,306.25	4/2.2
2	Supply of materials and equipment	Transformer station 10(20)/0.4 kV	set	3	43,015.97	129,047.92	4/2.2
C Electric power installations							
1	Electrical installations for facilities in Novi Beograd						
1-1	installation cost	Power supply, distribution cabinets, UPS (1.5h~3h) system, electrical lighting system and wiring for socket, luminaires and accessories, grounding, other works	place	1	35,452.73	35,452.73	4/2.2
1-2	equipment cost	UPS (1.5h~3h) and accessories	place	1	21,271.64	21,271.64	4/2.2
2	Electrical installations for facilities in Tošin Bunar						
2-1	installation cost	Power supply, distribution cabinets, electrical lighting system and wiring for socket, luminaires and accessories, grounding, other works	place	1	3,639.81	3,639.81	4/2.2

9 Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Electrical installations for facilities in Zemun						
3-1	installation cost	Power supply,distributin cabinets,UPS (1.5h~3h) system,electrica lighting system and wiring for socket,luminares and accessries,grounding,other works	place	1	192,673.75	192,673.75	4/2.2
3-2	equipment cost	UPS(1.5h~3h) and accessories	place	1	34,980.02	34,980.02	4/2.2
4	Electrical installations for facilities in Altina						
4-1	installation cost	Power supply,distributin cabinets,electrica lighting system and wiring for socket,luminares and accessries,grounding,other works	place	1	3,639.81	3,639.81	4/2.2
5	Electrical installations for facilities in Zemunsko Polje						
5-1	installation cost	Power supply,distributin cabinets,UPS (1.5h~3h) system,electrica lighting system and wiring for socket,luminares and accessries,grounding,other works	place	1	24,107.85	24,107.85	4/2.2
5-2	equipment cost	UPS (1.5h~3h) and accessories	place	1	10,872.17	10,872.17	
6	Electrical installations for facilities in Kamendin						
6-1	installation cost	Power supply,distributin cabinets,electrica lighting system and wiring for socket,luminares and accessries,grounding,other works	place	1	3,639.81	3,639.81	4/2.2
7	Electrical installations for facilities in Batajnica						
7-1	installation cost	Power supply,distributin cabinets,UPS (1.5h~3h) system,electrica lighting system and wiring for socket,luminares and accessries,grounding,other works	place	1	65,327.56	65,327.56	4/2.2
7-2	equipment cost	UPS (1.5h~3h) and accessories	place	1	33,089.21	33,089.21	4/2.2
8	Electrical installations for facilities in Nova Pazova						
8-1	installation cost	Power supply,distributin cabinets,UPS (1.5h~3h) system,electrica lighting system and wiring for socket,luminares and accessries,grounding,other works	place	1	49,161.11	49,161.11	4/2.2
8-2	equipment cost	UPS (1.5h~3h) and accessories,distributin cabinets	place	1	41,597.86	41,597.86	4/2.2
9	Electrical installations for facilities in Stara Pazova						

9 Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9-1	installation cost	Power supply,distributin cabinets,UPS (1.5h~3h) system,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	51,997.33	51,997.33	4/2.2
9-2	equipment cost	UPS (1.5h~3h) and accessories,distributin cabinets	place	1	24,202.39	24,202.39	4/2.2
10	Electrical power installations for supplying TK installations in the tunnel Bežanija						
10-1	installation cost	Power supply,distributin cabinets,UPS (1.5h~3h) system,electrica lighting system and wiring for socket,luminaires and accessries,grounding,other works	place	1	7,279.63	7,279.63	4/2.2
10-2	equipment cost	UPS (1.5h~3h) and accessories,distributin cabinets	place	1	87,260.98	87,260.98	4/2.2
D	Lighting installation in station						
1	Lighting installation in New Belgrade station	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	71,415.97	71,415.97	4/2.3
2	Supply of materials and equipment for Novi Beograd	Lighting poles,luminaires	station	1	166,637.27	166,637.27	4/2.3
3	Lighting installation in Tosin bunar stopping place	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	29,638.48	29,638.48	4/2.3
4	Supply of materials and equipment for Tošin Bunar	Lighting poles,luminaires	station	1	69,156.45	69,156.45	4/2.3
5	Lighting installation in Zemun station	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	76,436.08	76,436.08	4/2.3
6	Supply of materials and equipment for Zemun	Lighting poles,luminaires	station	1	178,350.85	178,350.85	4/2.3
7	Lighting installation in Altina stopping place	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	17,868.17	17,868.17	4/2.3
8	Supply of materials and equipment for Altina	Lighting poles,luminaires	station	1	41,692.41	41,692.41	4/2.3
9	Lighting installation in Zemunsko polje	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	16,024.63	16,024.63	4/2.3
10	Supply of materials and equipment for Zemunsko Polje	Lighting poles,luminaires	station	1	37,390.81	37,390.81	4/2.3
11	Lighting installation in Kamendin stopping place	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	24,348.93	24,348.93	4/2.3
12	Supply of materials and equipment for Kamendin	Lighting poles,luminaires	station	1	56,814.17	56,814.17	4/2.3

9 Power Supply

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	Lighting installation in Batajnica station	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	29,576.37	29,576.37	4/2.3
14	Supply of materials and equipment for Batajnica	Lighting poles,luminaires	station	1	69,011.52	69,011.52	4/2.3
15	Lighting installation in Nova Pazova station	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	35,490.16	35,490.16	4/2.3
16	Supply of materials and equipment for Nova Pazova	Lighting poles,luminaires	station	1	82,810.38	82,810.38	4/2.3
17	Lighting installation in Stara Pazova station	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	43,228.22	43,228.22	4/2.3
18	Supply of materials and equipment for Stara Pazova	Lighting poles,luminaires	station	1	100,865.84	100,865.84	4/2.3
19	Lighting installation in 15+915	Foundation,cable trench,LV cable, lighting pole,luminaires and accessries,grounding,other works	station	1	12,762.98	12,762.98	4/2.3
20	Supply of materials and equipment for 15+915	Lighting poles,luminaires	station	1	29,780.29	29,780.29	4/2.3
E	Lighting installation at grade separated crossings and access roads						
1	12+700 to 13+000		place	1	34,236.93	34,236.93	4/2.4
2	13+288		place	1	231,545.06	231,545.06	4/2.4
3	13+350 to 13+900		place	1	42,186.85	42,186.85	4/2.4
4	15+915		place	1	123,481.37	123,481.37	4/2.4
5	26+392		place	1	71,218.38	71,218.38	4/2.4
6	34+727		place	1	185,991.62	185,991.62	4/2.4
F	Relocation and protection of electrical installations design for protection and relocation of the existing technical and utility infrastructure						
1	Belgrade-Zemun (included)	1kV/10kV/35kV	set	1	749,156.75	749,156.75	4/2.5
2	Zemun (excluded)-Batajnica (excluded)	1kV/10kV/35kV	set	1	122,778.75	122,778.75	4/2.5
3	Batajnica (included)-Stara Pazova	1kV/10kV/20kV/35kV	set	1	183,110.68	183,110.68	4/2.5
Summary (USD):						4,336,518.33	

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A	Interlocking of the Belgrade Center station, New Belgrade station and interstation distance between Beograd center and novi Beograd						
A-1	INDOOR EQUIPMENT IN THE NEW BELGRADE STATION						
1	CBI	Computer based interlocking device in the station, including terminals, electronic control post device, LAN, interfaces with other system and etc.	set	1	1,450,691.50	1,450,691.50	5/1.2
2	CTC	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	set	1	205,841.36	205,841.36	5/1.2
3	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	set	1	176,741.76	176,741.76	5/1.2
4	Electronic automatic blocking device	Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 .	set	1	68,613.79	68,613.79	5/1.2
5	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	set	1	13,477.71	13,477.71	5/1.2
6	Optical cable termination frame	Optical cable termination frame (3OKP=ODF) 2x60	set	1	1,592.82	1,592.82	5/1.2
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	set	1	10,782.17	10,782.17	5/1.2

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	set	1	980.20	980.20	5/1.2
9	Power Panel	Station power panel provided with switches, converters, and etc.	set	1	227,577.23	227,577.23	5/1.2
10	Safety interface	Safety interface - electronic control post/station post of the automatic block relay device, SpDrS-64JŽ system. The item includes all necessary interface elements required for traffic operations on the single track.	set	1	15,928.20	15,928.20	5/1.2
11	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	set	1	120,686.75	120,686.75	5/1.2
12	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	set	1	6,738.85	6,738.85	5/1.2
13	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	set	1	18,378.69	18,378.69	5/1.2
A-2	INDOOR EQUIPMENT IN THE BELGRADE CENTER STATION						
1	CTC	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	set	1	340,618.44	340,618.44	5/1.2
2	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	set	1	206,331.46	206,331.46	5/1.2

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Electronic-relay interface for connection to the existing automatic block relay interface on the interstation distance Belgrade Centre - New Belgrade. The item includes all necessary interface elements required for traffic operations on the single track.		set	2	22,054.43	44,108.86	5/1.2
4	Electronic interface used for connection of the existing interlocking device in the Belgrade Center Station and RBC. This item among other includes acquiring of communication protocol of existing CBI in station Belgrade Center (ESA 44 SB) and its harmonization with communication protocol of RBC over vital signalling network which also has to be open (transparent) and clearly and completely documented.		set	1	73,514.77	73,514.77	5/1.2
5	Electronic interface used for connection of the existing interlocking device in the Belgrade Center Station and CTC station device. This item among other includes acquiring of communication protocol of existing CBI in station Belgrade Center (ESA 44 SB) and its harmonization with communication protocol of station CTC device which also has to be open (transparent) and clearly and completely documented.		set	1	14,702.95	14,702.95	5/1.2

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Electronic interface used for connection of the existing interlocking device in the Belgrade Center Station and CSM station device. This item among other includes acquiring of communication protocol of existing CBI in station Belgrade Center (ESA 44 SB) and its harmonization with communication protocol of station CSM device which also has to be open (transparent) and clearly and completely		set	1	7,351.48	7,351.48	5/1.2
7	Electronic interface used to connect the existing points heating system in the Belgrade Center Station and data network for the remote control of points heating system. This item among other includes acquiring of communication protocol of existing point heating system in station Belgrade Center and its harmonization with communication protocol of remote control for points heating which also has to be open (transparent) and clearly and completely documented. Item also includes networking devices for accessing the remote control for points heating data network.		set	1	3,675.74	3,675.74	5/1.2

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	Devices for the formation of station signaling/interlocking LAN in CBI with necessary servers and devices for both control and protection of the said network (with communication devices that enable connection of LAN to vital signalling network and lineside optical cable).		set	1	26,955.42	26,955.42	5/1.2
9	UPS used for power supply of additional interlocking, CTC and CSM devices from the main and standby supply in the Belgrade Center Station. Nominal power load - 5kVA		set	1	7,351.48	7,351.48	5/1.2
10	Optical cable termination frame (3 OKP=ODF) 2x60		set	1	1,592.82	1,592.82	5/1.2
A-3	OUTDOOR EQUIPMENT IN THE NEW BELGRADE STATION				0.00	0.00	
1	Signal	Main signal with foundation, Limit track signal together with foundation, Shunting signal together with foundation, Speed sign, Direction sign, Signaling sign "78"	station	1	395,975.07	395,975.07	5/1.2
2	Electric points switch machine	Electric points switch machine, Termination cable box, Setting lever, long control lever, and short control lever with bolts, Signal point indicator	station	1	182,537.18	182,537.18	5/1.2
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	17,600.66	17,600.66	5/1.2
4	Points heating system device	Distribution cabinet, Termination box provided with appropriate clamps and fuses (PO), Electric points heater, Meteorological station	station	1	98,414.84	98,414.84	5/1.2
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	1,337.97	1,337.97	5/1.2

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"/		station	1	128,222.02	128,222.02	5/1.2
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	41,811.53	41,811.53	5/1.2
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	12,344.36	12,344.36	5/1.2
A-4	CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM IN THE NEW BELGRADE STATION						
1	Cables,cable accessries	Cale,Single mode optical cable,Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	124,943.78	124,943.78	5/1.2
2	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	4,013.91	4,013.91	5/1.2
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	14,485.11	14,485.11	5/1.2
A-5	INSTALLATION OF INDOOR EQUIPMENT IN NEW BELGRADE STATION	installation of indoor equipment in new belgrade station	station	1	161,303.66	161,303.66	5/1.2
A-6	INSTALLATION OF INDOOR EQUIPMENT IN THE BELGRADE CENTER STATION	installation of indoor equipment in the belgrade center station	station	1	46,314.31	46,314.31	5/1.2

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A-7	INSTALLATION OF OUTDOOR EQUIPMENT IN THE NEW BELGRADE STATION	installation of outdoor equipment in the new belgrade station	Complete execution of the works on the left / right side of the station	2	58,809.06	117,618.12	5/1.2
A-8	INSTALLATION OF CABLES, CABLE ASSECORIES AND GROUNDING SYSTEM IN THE NEW BELGRADE STATION	installation of cables, cable assecories and grounding system in the new belgrade station	Complete execution of the works on the left / right side of the station	2	32,712.91	65,425.82	5/1.2
A-9	DISMANTLING THE EXISTING DEVICES AND INSTALLING TEMPORARY INTERLOCKING IN THE COURSE OF WORKS ON THE NEW BELGRADE STATION				0.00	0.00	
1	Dismantling of the interlocking devices	Dismantling of the outdoor interlocking devices and indoor devices	set	1	20,829.19	20,829.19	5/1.2
2	Installing of temporary interlocking	Installing of the temporary outdoor and indoor devices	set	1	195,478.21	195,478.21	5/1.2
3	Dismantling of temporary interlocking	Dismantling of the temporary outdoor and indoor devices	set	1	5,714.55	5,714.55	5/1.2
A-10	INDOOR EQUIPMENT CONSTITUTING THE AUTOMATIC BLOCK ON INTERSTATION DISTANCE BETWEEN BELGRADE CENTER AND NEW BELGRADE		set	1	23,892.30	23,892.30	5/1.2
A-11	OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN BELGRADE CENTER AND NEW BELGRADE						
1	Signal	Main signal,Cabinet ,Standard warning sign provided with foundation.	open line	1	71,559.28	71,559.28	5/1.2
2	Concrete foundation	Concrete foundation for cabinets	open line	1	183.79	183.79	5/1.2

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		open line	1	14,653.94	14,653.94	5/1.2
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		open line	1	11,149.74	11,149.74	5/1.2
A-12	CABLES, CABLE ACCESSORIES AND EARTHING OF AUTOMATIC BLOCK ON THE INTER STATION DISTANCE BETWEEN BELGRADE CENTER AND NEW BELGRADE						
1	Cable	Cable, Single mode optical cable, Heat-shrinking cable joint, Optical joint, Cabinet, Material for sealing of cable cabinet, Termination box, PEHD plastic pipe, Cable route marker, PE cable warning strip, PE cable shield, Sand	open line	1	16,173.20	16,173.20	5/1.2
2	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements, Portions for welding FeZn 95mm ² wire to rail.	open line	1	1,360.27	1,360.27	5/1.2
A-13	INSTALLATION OF OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN BELGRADE CENTER AND NEW BELGRADE	installation of outdoor automatic block equipment on interstation distance between belgrade center and new belgrade	Complete execution of the works on the left / right side of the open line	2	4,391.90	8,783.79	5/1.2
A-14	LAYING OF CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM- B.CENTER - NB	laying of cables, cable accessories and grounding system- b.center - nb	Complete the outdoor equipment installation on the left / right side of the open line	2	6,265.05	12,530.10	5/1.2
A-15	DISMANTLING OF THE AUTOMATIC BLOCK B.CENTRE - N.BELGRADE		open line	1	2,315.72	2,315.72	5/1.2

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
B	Interlocking of the Zemun station and interstation distance between novi Beograd and Zemun						
B-1	INDOOR EQUIPMENT IN THE STATION ZEMUN						
1	CBI	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc.	set	1	2,501,952.74	2,501,952.74	5/1.3
2	CTC	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	set	1	242,598.75	242,598.75	5/1.3
3	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	set	1	207,403.55	207,403.55	5/1.3
4	Electronic automatic blocking device	Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 .	set	1	68,613.79	68,613.79	5/1.3
5	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	set	1	20,829.19	20,829.19	5/1.3
6	Optical cable termination frame	Optical cable termination frame (3OKP=ODF) 2x60	set	1	1,592.82	1,592.82	5/1.3
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	set	1	10,782.17	10,782.17	5/1.3

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	set	1	980.20	980.20	5/1.3
9	Power Panel	Station power panel provided with switches, converters, and etc.	set	1	212,874.28	212,874.28	5/1.3
10	Safety interface	Safety interface - electronic control post station Zemun/(future) interlocking device in TPS Zemun. The item includes all necessary interface elements required for traffic operations on the single track.	set	3	15,928.20	47,784.60	5/1.3
11	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	set	1	230,958.91	230,958.91	5/1.3
12	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	set	1	9,189.35	9,189.35	5/1.3
13	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	set	2	18,378.69	36,757.39	5/1.3
B-2 OUTDOOR EQUIPMENT IN THE STATION ZEMUN							
1	Signal	Main signal ,Limit track signal together with foundation,Shunting signal together with foundation,Speed sign,Signaling sign "78" ,Cabinet	station	1	724,720.88	724,720.88	5/1.3
2	Electric points switch machine	Electric points switch machine, Termination cable box, Setting lever, long control lever, and short control lever with bolts, Signal point indicator, Derailing electric setting machine, Support of the derailing electric setting machine, Derailment head, Derailment sign indicator	station	1	491,002.71	491,002.71	5/1.3

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	54,872.65	54,872.65	5/1.3
4	Points heating system device	Distribution cabinet, Termination box provided with appropriate clamps and fuses (PO), Electric points heater, Meteorological station	station	1	290,448.90	290,448.90	5/1.3
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	3,440.49	3,440.49	5/1.3
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"/		station	1	348,031.18	348,031.18	5/1.3
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	66,898.44	66,898.44	5/1.3
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	4,937.74	4,937.74	5/1.3
B-3	CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM IN THE STATION ZEMUN						
1	Cables, cable accessories	Cable, Single mode optical cable, Heat-shrinking cable joint, Cable distribution cabinet, Termination box, Material for sealing of cable cabinet, PEHD plastic pipe, Cable route marker, PE cable warning strip, PE cable shield, sand, Brick	station	1	424,367.07	424,367.07	5/1.3
2	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	11,149.74	11,149.74	5/1.3
3	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements, Portions for welding FeZn 95mm ² wire to rail.	station	1	36,601.41	36,601.41	5/1.3
B-4	INSTALLATION OF INDOOR EQUIPMENT IN STATION ZEMUN	installation of indoor equipment in station zemun	station	1	261,651.33	261,651.33	5/1.3

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
B-5	INSTALLATION OF OUTDOOR EQUIPMENT IN THE STATION ZEMUN	installation of outdoor equipment in the station zemun	Complete execution of the works on the left / right side of the station	2	129,821.27	259,642.54	5/1.3
B-6	INSTALLATION OF CABLES, CABLE ASSECORIES AND GROUNDING SYSTEM IN THE STATION ZEMUN	installation of cables, cable assecories and grounding system in the station zemun	Complete execution of the works on the left / right side of the station	2	92,815.19	185,630.38	5/1.3
B-7	DISMANTLING THE EXISTING DEVICES AND INSTALLING TEMPORARY INTERLOCKING IN THE COURSE OF WORKS ON THE STATION ZEMUN						
1	Dismantling of the interlocking devices	Dismantling of the outdoor interlocking devices and indoor devices	set	1	46,559.36	46,559.36	5/1.3
2	Installing of temporary interlocking	Installing of the temporary outdoor and indoor devices	set	1	214,181.12	214,181.12	5/1.3
3	Dismantling of temporary interlocking	Dismantling of the temporary outdoor and indoor devices	set	1	7,416.42	7,416.42	5/1.3
B-8	INDOOR EQUIPMENT CONSTITUTING THE AUTOMATIC BLOCK ON INTERSTATION DISTANCE BETWEEN NOVI BEOGRAD AND ZEMUN		set	1	23,892.30	23,892.30	5/1.3
B-9	OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN NOVI BEOGRAD AND ZEMUN						
1	Signal	Main signal,Pre-signalisation repeater signal,Cabinet ,Standard warning sign provided with foundation,Tunnel type warning sign	open line	1	171,622.69	171,622.69	5/1.3
2	Concrete foundation	Concrete foundation for cabinets	open line	1	183.79	183.79	5/1.3

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		open line	1	14,653.94	14,653.94	5/1.3
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		open line	1	22,299.48	22,299.48	5/1.3
B-10	CABLES, CABLE ACCESSORIES AND EARTHING OF AUTOMATIC BLOCK ON THE INTER STATION DISTANCE BETWEEN NOVI BEOGRAD AND ZEMUN						
1	Cable	Cable, Single mode optical cable, Heat-shrinking cable joint, Optical joint, Cabinet, Material for sealing of cable cabinet, Termination box, PEHD plastic pipe, Steel pipe, Cable route marker, PE cable warning strip, PE cable shield, Sand	open line	1	42,968.15	42,968.15	5/1.3
2	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements, Portions for welding FeZn 95mm ² wire to rail.	open line	1	3,126.71	3,126.71	5/1.3
B-11	INSTALLATION OF OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN NOVI BEOGRAD AND ZEMUN	installation of outdoor automatic block equipment on interstation distance between novi beograd and zemun	Complete execution of the works on the left / right side of the open line	2	9,039.25	18,078.51	5/1.3
B-12	LAYING OF CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM ON INTERSTATION DISTANCE BETWEEN NOVI BEOGRAD AND ZEMUN	laying of cables, cable accessories and grounding system on interstation distance between novi beograd and zemun	Complete execution of the works on the left / right side of the open line	2	9,900.46	19,800.93	5/1.3

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
B-13	DISMANTLING OF THE AUTOMATIC BLOCK NOVI BEOGRAD - ZEMUN		open line	1	4,631.43	4,631.43	5/1.3
C	Interlocking of the Zemun polje station and interstation distance between Zemun and Zemun polje						
C-1	INDOOR EQUIPMENT IN THE ZEMUNSKO POLJE STATION						
1	CBI	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc.	set	1	1,117,424.54	1,117,424.54	5/1.4
2	CTC	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	set	1	205,841.36	205,841.36	5/1.4
3	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	set	1	169,665.97	169,665.97	5/1.4
4	Electronic automatic blocking device	Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 .	set	1	71,064.28	71,064.28	5/1.4
5	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	set	1	13,477.71	13,477.71	5/1.4
6	Optical cable termination frame	Optical cable termination frame (3OKP=ODF) 2x60	set	1	1,592.82	1,592.82	5/1.4
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	set	1	10,782.17	10,782.17	5/1.4

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	set	1	980.20	980.20	5/1.4
9	Power Panel	Station power panel provided with switches, converters, and etc.	set	1	200,621.81	200,621.81	5/1.4
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	set	1	115,173.14	115,173.14	5/1.4
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	set	1	9,189.35	9,189.35	5/1.4
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	set	1	18,378.69	18,378.69	5/1.4
13	Relay safety interface between CBI Zemunsko Polje and (future) CBI in TPS Zemun. The item includes all necessary interface elements required for traffic operations on the single track.		set	1	15,928.20	15,928.20	5/1.4
C-2	OUTDOOR EQUIPMENT IN THE ZEMUNSKO POLJE STATION						
1	Signal	Main signal with foundation, Direction sign, Separate outer distant (warning) signal with foundation, Direction sign provided, Standard warning sign provided with foundation.	station	1	283,792.75	283,792.75	5/1.4
2	Electric points switch machine	Electric points switch machine, Termination cable box, Setting lever, long control lever, and short control lever with bolts, Signal point indicator	station	1	170,368.03	170,368.03	5/1.4
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	16,565.33	16,565.33	5/1.4

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Points heating system device	Distribution cabinet, Termination box provided with appropriate clamps and fuses (PO), Electric points heater, Meteorological station	station	1	91,355.58	91,355.58	5/1.4
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	1,146.83	1,146.83	5/1.4
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"/		station	1	117,231.56	117,231.56	5/1.4
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	39,024.09	39,024.09	5/1.4
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	2,468.87	2,468.87	5/1.4
C-3	CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM IN THE ZEMUNSKO POLJE STATION						
1	Cables, cable accessories	Cable, Single mode optical cable, Heat-shrinking cable joint, Cable distribution cabinet, Termination box, Material for sealing of cable cabinet, PEHD plastic pipe, Cable route marker, PE cable warning strip, PE cable shield, sand, Brick	station	1	78,632.83	78,632.83	5/1.4
2	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	2,675.94	2,675.94	5/1.4
3	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements, Portions for welding FeZn 95mm ² wire to rail.	station	1	10,407.49	10,407.49	5/1.4
C-4	INSTALLATION OF INDOOR EQUIPMENT IN ZEMUNSKO POLJE STATION						
		installation of indoor equipment in zemunsko polje station	station	1	141,638.46	141,638.46	5/1.4

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
C-5	INSTALLATION OF OUTDOOR EQUIPMENT IN THE ZEMUNSKO POLJE STATION	installation of outdoor equipment in the zemunsko polje station	Complete execution of the works on the left / right side of the station	2	47,291.13	94,582.27	5/1.4
C-6	INSTALLATION OF CABLES, CABLE ASSECORIES AND GROUNDING SYSTEM IN THE ZEMUNSKO POLJE STATION	installation of cables, cable assecories and grounding system in the zemunsko polje station	Complete execution of the works on the left / right side of the station	2	23,790.17	47,580.34	5/1.4
C-7	DISMANTLING THE EXISTING DEVICES AND INSTALLING TEMPORARY INTERLOCKING IN THE COURSE OF WORKS ON THE ZEMUNSKO POLJE STATION						
1	Dismantling of the interlocking devices	Dismantling of the outdoor interlocking devices and indoor devices	set	1	46,559.36	46,559.36	5/1.4
2	Installing of temporary interlocking	Installing of the temporary outdoor and indoor devices	set	1	168,128.10	168,128.10	5/1.4
3	Dismantling of temporary interlocking	Dismantling of the temporary outdoor and indoor devices	set	1	4,753.96	4,753.96	5/1.4
C-8	INDOOR EQUIPMENT CONSTITUTING THE AUTOMATIC BLOCK ON INTERSTATION DISTANCE BETWEEN ZEMUN AND ZEMUNSKO POLJE		set	1	23,892.30	23,892.30	5/1.4
C-9	OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN ZEMUN AND ZEMUNSKO POLJE						
1	Signal	Main signal,Pre-signalisation repeater signa,Cabinet ,Standard warning sign provided with foundation.	open line	1	96,529.80	96,529.80	5/1.4
2	Concrete foundation	Concrete foundation for cabinets	open line	1	735.15	735.15	5/1.4

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		open line	1	14,653.94	14,653.94	5/1.4
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		open line	1	11,149.74	11,149.74	5/1.4
C-10	CABLES, CABLE ACCESSORIES AND EARTHING OF AUTOMATIC BLOCK ON THE INTER STATION DISTANCE BETWEEN ZEMUN AND ZEMUNSKO POLJE						
1	Cable	Cable, Single mode optical cable, Heat-shrinking cable joint, Optical joint, Cabinet, Material for sealing of cable cabinet, Termination box, PEHD plastic pipe, Cable route marker, PE cable warning strip, PE cable shield, Sand	open line	1	34,560.90	34,560.90	5/1.4
2	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements, Portions for welding FeZn 95mm ² wire to rail.	open line	1	2,387.64	2,387.64	5/1.4
C-11	INSTALLATION OF OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN ZEMUN AND ZEMUNSKO POLJE	installation of outdoor automatic block equipment on interstation distance between zemun and zemunsko polje	Complete execution of the works on the left / right side of the open line	2	5,415.59	10,831.18	5/1.4
C-12	LAYING OF CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM- ZEMUN - Z.POLJE	laying of cables, cable accessories and grounding system- zemun - z.polje	Complete execution of the works on the left / right side of the open line	2	7,481.15	14,962.31	5/1.4
C-13	DISMANTLING OF THE AUTOMATIC BLOCK ZEMUN - ZEMUNSKO POLJE		open line	1	1,617.32	1,617.32	5/1.4

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
D	Interlocking of the Batajnica station and interstation distance between Zemun polje station and Batajnica station						
D-1	INDOOR EQUIPMENT						
1	CBI	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc.	set	1	2,011,854.26	2,011,854.26	5/1.5
2	CTC	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	set	1	242,598.75	242,598.75	5/1.5
3	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	set	1	200,113.34	200,113.34	5/1.5
4	Electronic automatic blocking device	Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 .	set	1	93,118.71	93,118.71	5/1.5
5	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	set	1	22,054.43	22,054.43	5/1.5
6	Optical cable termination frame	Optical cable termination frame (3OKP=ODF) 2x60	set	1	1,592.82	1,592.82	5/1.5
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	set	1	10,782.17	10,782.17	5/1.5
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	set	1	980.20	980.20	5/1.5

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9	Power Panel	Station power panel provided with switches, converters, and etc.	set	1	239,094.54	239,094.54	5/1.5
10	Safety interface	Safety interface - electronic control post/station post of the automatic block relay device, SpDrS-64JŽ system. The item includes all necessary interface elements required for traffic operations on the single track.	set	1	15,928.20	15,928.20	5/1.5
11	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	set	1	219,931.69	219,931.69	5/1.5
12	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position (including monitor, keyboard, and mouse)	set	1	9,189.35	9,189.35	5/1.5
13	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	set	2	18,378.69	36,757.39	5/1.5
D-2 OUTDOOR EQUIPMENT IN THE BATAJNICA STATION							
1	Signal	Main signal with foundation, Pre-signalisation repeater signal, Limit track signal together with foundation, Shunting signal together with foundation, Speed sign, Direction sign, Signaling sign "78"	station	1	640,472.95	640,472.95	5/1.5
2	Electric points switch machine	Electric points switch machine, Termination cable box, Setting lever, long control lever, and short control lever with bolts, Signal point indicator, Derailing electric setting machine, Support of the derailing electric setting machine, Derailment head	station	1	510,100.63	510,100.63	5/1.5
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	46,589.99	46,589.99	5/1.5
4	Points heating system device	Distribution cabinet, Termination box provided with appropriate clamps and fuses (PO), Electric points heater, Meteorological station	station	1	244,275.50	244,275.50	5/1.5
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	3,058.21	3,058.21	5/1.5

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"/		station	1	318,723.29	318,723.29	5/1.5
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	64,111.01	64,111.01	5/1.5
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	7,406.61	7,406.61	5/1.5
D-3	CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM IN THE BATAJNICA STATION						
1	Cables,cable accessries	Cale,Single mode optical cable,Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	325,440.43	325,440.43	5/1.5
2	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	8,027.81	8,027.81	5/1.5
3	Grounding system	Insulated wire, FeZn 95mm2, for grounding of outdoor elements,Portions for welding FeZn 95mm2 wire to rail.	station	1	29,709.28	29,709.28	5/1.5
D-4	INSTALLATION OF INDOOR EQUIPMENT IN BATAJNICA STATION	installation of indoor equipment in batajnica station	station	1	230,897.65	230,897.65	5/1.5
D-5	INSTALLATION OF OUTDOOR EQUIPMENT IN THE STATION BATAJNICA	Installation of outdoor equipment in the batajnica station	Complete execution of the works on the left / right side of the open line	2	130,352.72	260,705.44	5/1.5

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
D-6	INSTALLATION OF CABLES, CABLE ASSECORIES AND GROUNDING SYSTEM IN THE BATAJNICA STATION	Installation of cables, cable assecories and grounding system in the batajnica station	Complete execution of the works on the left / right side of the open line	2	79,880.80	159,761.61	5/1.5
D-7	DISMANTLING THE EXISTING DEVICES AND INSTALLING TEMPORARY INTERLOCKING IN THE COURSE OF WORKS ON THE BATAJNICA STATION						5/1.5
1	Dismantling of the interlocking devices	Dismantling of the outdoor interlocking devices and indoor devices	set	1	40,433.12	40,433.12	5/1.5
2	Installing of temporary interlocking	Installing of the temporary outdoor and indoor devices	set	1	288,829.27	288,829.27	5/1.5
3	Dismantling of temporary interlocking	Dismantling of the temporary outdoor and indoor devices	set	1	11,293.09	11,293.09	5/1.5
D-8	INDOOR EQUIPMENT CONSTITUTING THE AUTOMATIC BLOCK ON INTERSTATION DISTANCE BETWEEN ZEMUNSKO POLJE AND BATAJNICA		set	1	23,892.30	23,892.30	5/1.5
D-9	OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN ZEMUNSKO POLJE AND BATAJNICA						
1	Signal	Main signal,Cabinet ,Standard warning sign provided with foundation.	open line	1	212,511.60	212,511.60	5/1.5
2	Concrete foundation	Concrete foundation for cabinets	open line	1	551.36	551.36	5/1.5
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"	open line	1	21,980.92	21,980.92	5/1.5

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	Combined track magnet (autostop system I-60) provided with universal fastening system and shields	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields	open line	1	33,449.22	33,449.22	5/1.5
D-10	CABLES, CABLE ACCESSORIES AND EARTHING OF AUTOMATIC BLOCK ON THE INTER STATION DISTANCE BETWEEN ZEMUNSKO POLJE AND BATAJNICA						
1	Cable	Cable, Single mode optical cable, Heat-shrinking cable joint, Optical joint, Cabinet, Material for sealing of cable cabinet, Termination box, PEHD plastic pipe, Cable route marker, PE cable warning strip, PE cable shield, Sand	open line	1	74,086.93	74,086.93	5/1.5
2	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements, Portions for welding FeZn 95mm ² wire to rail.	open line	1	3,709.68	3,709.68	5/1.5
D-11	INSTALLATION OF OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE ZEMUNSKO POLJE AND BATAJNICA	installation of outdoor automatic block equipment on interstation distance zemunsko polje and batajnica	Complete execution of the works on the left / right side of the open line	2	11,662.51	23,325.01	5/1.5
D-12	LAYING OF CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM - ZEMUNSKO POLJE - BATAJNICA	laying of cables, cable accessories and grounding system - zemunsko polje - batajnica	Complete execution of the works on the left / right side of the open line	2	15,814.66	31,629.31	5/1.5
D-13	DISMANTLING OF THE AUTOMATIC BLOCK ZEMUNSKO POLJE - BATAJNICA		open line	1	4,851.97	4,851.97	5/1.5
E	Interlocking of the Nova Pazova station and interstation distance between Batajnica station and Nova Pazova station						
E-1	INDOOR EQUIPMENT IN THE NOVA PAZOVA STATION						
1	CBI	Computer based interlocking device in the station, including terminals, electronic control post device, LAN, interfaces with other system and etc.	set	1	1,636,928.93	1,636,928.93	5/1.6

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	CTC	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	set	1	205,841.36	205,841.36	5/1.6
3	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	set	1	188,534.76	188,534.76	5/1.6
4	Electronic automatic blocking device	Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 .	set	1	107,821.67	107,821.67	5/1.6
5	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	set	1	17,153.45	17,153.45	5/1.6
6	Optical cable termination frame	Optical cable termination frame (3OKP=ODF) 2x60	set	1	1,592.82	1,592.82	5/1.6
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	set	1	10,782.17	10,782.17	5/1.6
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	set	1	980.20	980.20	5/1.6
9	Power Panel	Station power panel provided with switches, converters, and etc.	set	1	243,505.43	243,505.43	5/1.6

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
10	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	set	1	155,606.27	155,606.27	5/1.6
11	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	set	1	9,189.35	9,189.35	5/1.6
12	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	set	2	18,378.69	36,757.39	5/1.6
E-2	OUTDOOR EQUIPMENT IN THE NOVA PAZOVA STATION						
1	Signal	Main signal,Limit track signal together with foundation,Shunting signal together with foundation	station	1	451,644.13	451,644.13	5/1.6
2	Electric points switch machine	Electric points switch machine,Termination cable box,Setting lever, long control lever, and short control lever with bolts,Signal point indicator ,Electro-mechanical controller,Support of the electro-mechanical controller,Derailing electric setting machine,Support of the derailing electric setting machine ,Derailment head,Derailment sign indicator	station	1	510,785.54	510,785.54	5/1.6
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	41,413.32	41,413.32	5/1.6
4	Points heating system device	Distribution cabinet,Termination box provided with appropriate clamps and fuses (PO),Electric points heater,Meteorological station	station	1	199,953.44	199,953.44	5/1.6
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	2,293.66	2,293.66	5/1.6
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"/		station	1	175,847.33	175,847.33	5/1.6

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	Combined track magnet (autostop system I-60) provided with universal fastening system and shields		station	1	41,811.53	41,811.53	5/1.6
E-3	CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM IN THE NOVA PAZOVA STATION						
1	Cables,cable accessories	Cable,Single mode optical cable,Heat-shrinking cable joint,Cable distribution cabinet,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	265,705.14	265,705.14	5/1.6
2	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	4,013.91	4,013.91	5/1.6
3	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements,Portions for welding FeZn 95mm ² wire to rail.	station	1	18,524.50	18,524.50	5/1.6
E-4	INSTALLATION OF INDOOR EQUIPMENT IN NOVA PAZOVA STATION	Installation of indoor equipment in Nova Pazova station	station	1	186,298.69	186,298.69	5/1.6
E-5	INSTALLATION OF OUTDOOR EQUIPMENT IN THE NOVA PAZOVA STATION	Installation of outdoor equipment in the Nova Pazova station	Complete execution of the works on the left / right side of the station	2	99,345.72	198,691.44	5/1.6
E-6	INSTALLATION OF CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM IN THE NOVA PAZOVA STATION	Installation of cables, cable accessories and grounding system in the Nova Pazova station	Complete execution of the works on the left / right side of the station	2	61,122.65	122,245.30	5/1.6
E-7	DISMANTLING THE EXISTING DEVICES AND INSTALLING TEMPORARY INTERLOCKING IN THE COURSE OF WORKS ON THE NOVA PAZOVA STATION						
1	Dismantling of the interlocking devices	Dismantling of the outdoor interlocking devices and indoor devices	station	1	46,559.36	46,559.36	5/1.6
2	Installing of temporary interlocking	Installing of the temporary outdoor and indoor devices	station	1	258,798.71	258,798.71	5/1.6
3	Dismantling of temporary interlocking	Dismantling of the temporary outdoor and indoor devices	station	1	9,659.84	9,659.84	5/1.6

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
E-8	INDOOR EQUIPMENT CONSTITUTING THE AUTOMATIC BLOCK ON INTERSTATION DISTANCE BETWEEN BATAJNICA AND NOVA PAZOVA		set	1	23,892.30	23,892.30	5/1.6
E-9	OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN BATAJNICA AND NOVA PAZOVA						
1	Signal	Main signal, Separate outer distant (warning) signal, Cabinet, Standard warning sign provided with foundation.	open line	1	279,168.67	279,168.67	5/1.6
2	Concrete foundation	Concrete foundation for cabinets	open line	1	1,286.51	1,286.51	5/1.6
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		open line	1	36,634.86	36,634.86	5/1.6
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		open line	1	33,449.22	33,449.22	5/1.6
E-10	CABLES, CABLE ACCESSORIES AND EARTHING OF AUTOMATIC BLOCK ON THE INTER STATION DISTANCE BETWEEN BATAJNICA AND NOVA PAZOVA						
1	Cable	Cable, Single mode optical cable, Heat-shrinking cable joint, Optical joint, Cabinet, Material for sealing of cable cabinet, Termination box, PEHD plastic pipe, Cable route marker, PE cable warning strip, PE cable shield, Sand	open line	1	118,573.75	118,573.75	5/1.6
2	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements, Portions for welding FeZn 95mm ² wire to rail.	open line	1	5,320.02	5,320.02	5/1.6

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
E-11	INSTALLATION OF OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN BATAJNICA AND NOVA PAZOVA	Installation of outdoor automatic block equipment on interstation distance between batajnica and nova pazova	Complete execution of the works on the left / right side of the open line	2	14,306.59	28,613.17	5/1.6
E-12	LAYING OF CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM - BATAJNICA -NOVA PAZOVA	laying of cables, cable accessories and grounding system - batajnica -nova pazova	Complete execution of the works on the left / right side of the open line	2	22,966.95	45,933.91	5/1.6
E-13	DISMANTLING OF THE AUTOMATIC BLOCK BATAJNICA - NOVA PAZOVA		open line	1	4,631.43	4,631.43	5/1.6
F	Interlocking of the Stara Pazova station and interstation distance between Nova Pazova station and Stara Pazova						
F-1	INDOOR EQUIPMENT IN THE STARA PAZOVA STATION						
1	CBI	Computer based interlocking device in the sation, including terminals, electronic control post device, LAN, interfaces with other system and etc.	set	1	1,977,547.37	1,977,547.37	5/1.7
2	CTC	Centralized traffic control device (CTC) in station, provided with interfaces that enable connection to CBI, to CTC control terminal in the train dispatcher's room, to CSM device and to the network used for data transmission (CTC network)	set	1	242,598.75	242,598.75	5/1.7
3	CSM	Centralized signaling monitoring device (CSM) in station provided with interfaces that enable connection to CBI, to CTC station device, to cable distribution frame, to power supply cabinets and to the network used for CSM data transmission	set	1	196,039.39	196,039.39	5/1.7
4	Electronic automatic blocking device	Electronic automatic blocking device, as a segment of the computer based interlocking system (CBI) in station that enables communication with dislocated controllers via optic cables. Controllers are accommodated in self-standing cabinets or cabinets mounted on the signal post that controls both signal operation and I60 .	set	1	117,623.64	117,623.64	5/1.7

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	Lead acid ACCU battery	Lead acid ACCU battery with supply capacity of 3h under the full load regime and additional 8h in red lamp regime on all main station signals and axel counters, with DC busbars and fuses for both charging and discharging included.	set	1	18,133.64	18,133.64	5/1.7
6	Optical cable termination frame	Optical cable termination frame (3OKP=ODF) 2x60	set	1	1,592.82	1,592.82	5/1.7
7	Points heating system	Points heating system provided with terminal and indoor devices for supervisory control and data acquisition system (SCADA)	set	1	10,782.17	10,782.17	5/1.7
8	Power Box	Box provided with members for protection of the supply device against atmospheric discharges at the point where cables enter the power room. The box is provided with adequate number of safety members for single-phase power from overhead catenary system, three-phase power from public mains, and three-phase power from diesel generator socket outlet.	set	1	980.20	980.20	5/1.7
9	Power Panel	Station power panel provided with switches, converters, and etc.	set	1	274,136.59	274,136.59	5/1.7
10	Relay safety interface	Relay safety interface between CBI Stara Pazova and (future) CBI in Indjija. The item includes all necessary interface elements required for traffic operations on the single track.	set	4	15,928.20	63,712.80	5/1.7
11	Safety interface	Safety interface - electronic control post/station post of the automatic block relay device, SpDrS-64JŽ system toward Golubinci. The item includes all necessary interface elements required for traffic operations on the single track.	set	2	15,928.20	31,856.40	5/1.7
12	Safety microprocessor evaluator	Safety microprocessor evaluator, 2oo3 or 2oo2 for control of track occupancy in stations and automatic block sections by double-counting sensors of train wheels	set	1	181,336.44	181,336.44	5/1.7
13	Video monitoring and controlling of points lever position	Indoor devices that enable video monitoring and controlling of points lever position	set	1	9,189.35	9,189.35	5/1.7

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
14	Cable distribution frame	Cable distribution frame (ZKR) with mounting accessories, with cable connectors and surge voltage protective devices and protective devices from electromagnetic influence from OCS (10x13x6=780 connections)	set	2	18,378.69	36,757.39	5/1.7
F-2	OUTDOOR EQUIPMENT IN THE STARA PAZOVA STATION						
1	Signal	Main signal with foundation, Limit track signal together with foundation, Shunting signal together with foundation, Speed sign, Direction sign, Signaling sign "78"	station	1	487,721.50	487,721.50	5/1.7
2	Electric points switch machine	Electric points switch machine, Termination cable box, Setting lever, long control lever, and short control lever with bolts, Signal point indicator, Electro-mechanical controller, Support of the electro-mechanical controller	station	1	618,762.81	618,762.81	5/1.7
3	Video monitoring and controlling of points lever position	Outdoor devices that enable video monitoring and controlling of points lever position	station	1	57,978.65	57,978.65	5/1.7
4	Points heating system device	Distribution cabinet, Termination box provided with appropriate clamps and fuses (PO), Electric points heater, Meteorological station	station	1	266,161.46	266,161.46	5/1.7
5	Concrete foundation for distribution cabinet in charge of points heating.		station	1	2,867.08	2,867.08	5/1.7
6	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"/		station	1	219,809.17	219,809.17	5/1.7
7	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		station	1	55,748.70	55,748.70	5/1.7

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	Track magnet 500Hz (autostop system I-60) provided with universal fastening system and shields		station	1	4,937.74	4,937.74	5/1.7
F-3	CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM IN THE STARA PAZOVA STATION						
1	Cables,cable accessries	Cable,Single mode optical cable,Heat-shrinking cable joint,Cable distribution cabine,Termination box,Material for sealing of cable cabinet,PEHD plastic pipe,Cable route marker,PE cable warning strip,PE cable shield,sand,Brick	station	1	449,366.99	449,366.99	5/1.7
2	Concrete foundation	Concrete foundation for cable distribution cabinet	station	1	5,351.88	5,351.88	5/1.7
3	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements,Portions for welding FeZn 95mm ² wire to rail.	station	1	24,972.23	24,972.23	5/1.7
F-4	INSTALLATION OF INDOOR EQUIPMENT IN STARA PAZOVA STATION	Installation of indoor equipment in Stara Pazova station	station	1	210,497.30	210,497.30	5/1.7
F-5	INSTALLATION OF OUTDOOR EQUIPMENT IN THE STARA PAZOVA STATION	Installation of outdoor equipment in the stara pazova station	Complete execution of the works on the left / right side of the station	2	125,903.24	251,806.47	5/1.7
F-6	INSTALLATION OF CABLES, CABLE ASSECORIES AND GROUNDING SYSTEM IN THE STARA PAZOVA STATION	Installation of cables, cable assecories and grounding system in the stara pazova station	Complete execution of the works on the left / right side of the station	2	68,403.71	136,807.42	5/1.7
F-7	DISMANTLING THE EXISTING DEVICES AND INSTALLING TEMPORARY INTERLOCKING IN THE COURSE OF WORKS ON THE STARA PAZOVA STATION						
1	Dismantling of the interlocking devices	Dismantling of the outdoor interlocking devices and indoor devices	station	1	46,559.36	46,559.36	5/1.7
2	Installing of temporary interlocking	Installing of the temporary outdoor and indoor devices	station	1	278,122.56	278,122.56	5/1.7
3	Dismantling of temporary interlocking	Dismantling of the temporary outdoor and indoor devices	station	1	9,576.52	9,576.52	5/1.7

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
F-8	INDOOR EQUIPMENT CONSTITUTING THE AUTOMATIC BLOCK ON INTERSTATION DISTANCE BETWEEN NOVA PAZOVA AND STARA PAZOVA		set	1	23,892.30	23,892.30	5/1.7
F-9	OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN NOVA PAZOVA AND STARA PAZOVA						
1	Signal	Main signal, Separate outer distant (warning) signal, Cabinet, Standard warning sign provided with foundation.	open line	1	275,837.23	275,837.23	5/1.7
2	Concrete foundation	Concrete foundation for cabinets	open line	1	551.36	551.36	5/1.7
3	Outdoor members constituting the twin axle counter (wheel sensor) provided with rail fastening and shields, connecting housing, electronic cards and surge arrester members. Covering shall be painted to show signal mark 207: "section limit"		open line	1	43,961.83	43,961.83	5/1.7
4	Combined track magnet 1000/2000Hz (autostop system I-60) provided with universal fastening system and shields		open line	1	44,598.96	44,598.96	5/1.7
F-10	CABLES, CABLE ACCESSORIES AND EARTHING OF AUTOMATIC BLOCK ON THE INTER STATION DISTANCE BETWEEN NOVA PAZOVA AND STARA PAZOVA						
1	Cable	Cable, Single mode optical cable, Heat-shrinking cable joint, Optical joint, Cabinet, Material for sealing of cable cabinet, Termination box, PEHD plastic pipe, Cable route marker, PE cable warning strip, PE cable shield, Sand	open line	1	127,432.43	127,432.43	5/1.7
2	Grounding system	Insulated wire, FeZn 95mm ² , for grounding of outdoor elements, Portions for welding FeZn 95mm ² wire to rail.	open line	1	5,167.11	5,167.11	5/1.7

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
F-11	INSTALLATION OF OUTDOOR AUTOMATIC BLOCK EQUIPMENT ON INTERSTATION DISTANCE BETWEEN NOVA PAZOVA AND STARA PAZOVA	Installation of outdoor automatic block equipment on interstation distance between Nova Pazova and Stara Pazova	Complete execution of the works on the left / right side of the open line	2	15,975.37	31,950.75	5/1.7
F-12	LAYING OF CABLES, CABLE ACCESSORIES AND GROUNDING SYSTEM - NOVA PAZOVA -STARA PAZOVA	Laying of cables, cable accessories and grounding system - Nova Pazova -Stara Pazova	Complete execution of the works on the left / right side of the open line	2	17,546.73	35,093.46	5/1.7
F-13	DISMANTLING OF THE AUTOMATIC BLOCK NOVI BEOGRAD - ZEMUN		open line	1	4,631.43	4,631.43	5/1.7
G	Equipment and works in Centralized Traffic Control Center and ETCS-L2 system devices and works						
G-1	CTC CENTER EQUIPMENT	Procurement, installation and testing of device integrating the centralized traffic control system (CTC)	set	1	12,498,700.97	12,498,700.97	5/2
G-2	CTC INSTALL	Procurement and installation of cables, cable accessories and other accompanying material for the purpose of installation and connecting the devices required for the centralized trafficcontrol system (CTC)	set	1	2,732,922.88	2,732,922.88	5/2
G-3	CSM CENTER EQUIPMENT	All devices required for the center of the centralized signaling monitoring including communication equipment for the purpose of connecting with station devices.	set	1	1,199,308.97	1,199,308.97	5/2
G-4	CSM CENTER EQUIPMENT INSTALL	Procurement and installation of cables, cable accessories and other accompanying material for the purpose of installation and connection of devices required for csm and system testing	set	1	41,689.00	41,689.00	5/2
G-5	Device for remote control of points heating	Device for remote control of points heating on the Belgrade Center - Novi Sad railway line section with control terminal in TC hall	set	1	36,757.39	36,757.39	5/2
G-6	Remote control of points heating install	Cables, wiring and connecting of devices for remote control of the points heating	set	1	4,598.35	4,598.35	5/2
G-7	ETCS-L2 INDOOR EQUIPMENT						

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	Radio block center (RBC)	including RBC and temporary speed restriction functions	set	1	4,715,526.64	4,715,526.64	5/2
2	Devices for creation of indoor LAN for RBC, including communication devices for their connection to the lineside optical cable and vital signaling/interlocking network, and including all necessary servers, terminals and devices for control and protection of the vital signalling/interlocking network (EMS).		set	1	144,744.46	144,744.46	5/2
3	Balise data preparation (by km)		km	34.6	4,135.21	143,078.13	5/2
4	Adjusting chainage specified in the ETCS system with the on site chainage (by km)		km	34.6	2,068.22	71,560.26	5/2
G-8	ETCS-L2 LINE SIDE DEVICES IN THE BELGRADE CENTER STATION						
1	ETCS-L2 LINE SIDE DEVICES IN THE BELGRADE CENTER STATION		station	1	235,644.27	235,644.27	5/2
2	INSTALLATION OF ETCS-L2 LINE SIDE DEVICES IN THE BELGRADE CENTER STATION		station	1	1,661.14	1,661.14	5/2
3	TESTING OF ETCS-L2 LINE SIDE DEVICES IN THE BELGRADE CENTER STATION		station	1	7,946.00	7,946.00	5/2
G-9	ETCS-L2 LINE SIDE DEVICES IN THE NOVI BEOGRAD STATION AND BELGRADE CENTER - NOVI BEOGRAD INTERSTATION DISTANCE						
1	ETCS-L2 LINE SIDE DEVICES IN THE NOVI BEOGRAD STATION AND BELGRADE CENTER - NOVI BEOGRAD INTERSTATION DISTANCE		station	1	117,822.00	117,822.00	5/2

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	INSTALLATION OF ETCS-L2 LINE SIDE DEVICES IN THE NOVI BEOGRAD STATION AND BELGRADE CENTER - NOVI BEOGRAD INTERSTATION DISTANCE		station	1	830.57	830.57	5/2
3	TESTING OF ETCS-L2 LINE SIDE DEVICES IN THE NOVI BEOGRAD STATION AND BELGRADE CENTER - NOVI BEOGRAD INTERSTATION DISTANCE		station	1	7,946.00	7,946.00	5/2
G-10	ETCS-L2 LINE SIDE DEVICES IN THE STATION ZEMUN AND NOVI BEOGRAD - ZEMUN INTERSTATION DISTANCE						
1	ETCS-L2 LINE SIDE DEVICES IN THE STATION ZEMUN AND NOVI BEOGRAD - ZEMUN INTERSTATION DISTANCE		station	1	259,208.72	259,208.72	5/2
2	INSTALLATION OF ETCS-L2 LINE SIDE DEVICES IN THE STATION ZEMUN AND NOVI BEOGRAD - ZEMUN INTERSTATION DISTANCE		station	1	1,827.25	1,827.25	5/2
3	TESTING OF ETCS-L2 LINE SIDE DEVICES IN THE STATION ZEMUN AND NOVI BEOGRAD - ZEMUN INTERSTATION DISTANCE		station	1	7,946.00	7,946.00	5/2
G-11	ETCS-L2 LINE SIDE DEVICES IN THE STATION ZEMUNSKO POLJE AND ZEMUN - ZEMUNSKO POLJE INTERSTATION DISTANCE						

10 Signaling System

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	ETCS-L2 LINE SIDE DEVICES IN THE STATION ZEMUNSKO POLJE AND ZEMUN - ZEMUNSKO POLJE INTERSTATION DISTANCE		station	1	94,257.54	94,257.54	5/2
2	INSTALLATION OF ETCS-L2 LINE SIDE DEVICES IN THE STATION ZEMUNSKO POLJE AND ZEMUN - ZEMUNSKO POLJE INTERSTATION DISTANCE		station	1	664.45	664.45	5/2
3	TESTING OF ETCS-L2 LINE SIDE DEVICES IN THE STATION ZEMUNSKO POLJE AND ZEMUN - ZEMUNSKO POLJE INTERSTATION DISTANCE		station	1	7,946.00	7,946.00	5/2
G-12	ETCS-L2 LINE SIDE DEVICES IN THE STATION BATAJNICA AND ZEMUNSKO POLJE - BATAJNICA INTERSTATION DISTANCE						
1	ETCS-L2 LINE SIDE DEVICES IN THE STATION BATAJNICA AND ZEMUNSKO POLJE - BATAJNICA INTERSTATION DISTANCE		station	1	278,845.77	278,845.77	5/2
2	INSTALLATION OF ETCS-L2 LINE SIDE DEVICES IN THE STATION BATAJNICA AND ZEMUNSKO POLJE - BATAJNICA INTERSTATION DISTANCE		station	1	1,965.68	1,965.68	5/2
3	TESTING OF ETCS-L2 LINE SIDE DEVICES IN THE STATION BATAJNICA AND ZEMUNSKO POLJE - BATAJNICA INTERSTATION DISTANCE		station	1	7,946.00	7,946.00	5/2
G-13	ETCS-L2 LINE SIDE DEVICES IN THE STATION NOVA PAZOVA AND BATAJNICA - NOVA PAZOVA INTERSTATION DISTANCE						

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	ETCS-L2 LINE SIDE DEVICES IN THE STATION NOVA PAZOVA AND BATAJNICA - NOVA PAZOVA INTERSTATION DISTANCE		station	1	141,386.45	141,386.45	5/2
2	INSTALLATION OF ETCS-L2 LINE SIDE DEVICES IN THE STATION NOVA PAZOVA AND BATAJNICA - NOVA PAZOVA INTERSTATION DISTANCE		station	1	996.68	996.68	5/2
3	TESTING OF ETCS-L2 LINE SIDE DEVICES IN THE STATION NOVA PAZOVA AND BATAJNICA - NOVA PAZOVA INTERSTATION DISTANCE		station	1	7,946.00	7,946.00	5/2
G-14	ETCS-L2 LINE SIDE DEVICES IN THE STATION STARA PAZOVA AND NOVA PAZOVA - STARA PAZOVA INTERSTATION DISTANCE						
1	ETCS-L2 LINE SIDE DEVICES IN THE STATION STARA PAZOVA AND NOVA PAZOVA - STARA PAZOVA INTERSTATION DISTANCE		station	1	141,386.45	141,386.45	5/2
2	INSTALLATION OF ETCS-L2 LINE SIDE DEVICES IN THE STATION STARA PAZOVA AND NOVA PAZOVA - STARA PAZOVA INTERSTATION DISTANCE		station	1	996.68	996.68	5/2
3	TESTING OF ETCS-L2 LINE SIDE DEVICES IN THE STATION STARA PAZOVA AND NOVA PAZOVA - STARA PAZOVA INTERSTATION DISTANCE		station	1	7,946.00	7,946.00	5/2
Summary(USD):						57,919,404.94	

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
A CABLES AND DISPATCHING TELECOMMUNICATION EQUIPMENT							
1	RELOCATION AND PROTECTION OF LINE SIDE CABLES Belgrade-Zemun (included)-Work	Station channel,Sand,Cable,etc. Placing the station channel, Filling the channel with sand, Building the structure for placing the optic fiber joint, etc.	set	1	12,702.03	12,702.03	5/3.1
2	RELOCATION AND PROTECTION OF LINE SIDE CABLES Zemun (excluded)-Batajnica (excluded)-Work	Station channel,Sand,Cable,etc. Placing the station channel, Filling the channel with sand, Building the structure for placing the optic fiber joint, etc.	set	1	97,344.46	97,344.46	5/3.1
3	RELOCATION AND PROTECTION OF LINE SIDE CABLES Batajnica (included)-Stara Pazova-Work	Station channel,Sand,Cable,etc. Placing the station channel, Filling the channel with sand, Building the structure for placing the optic fiber joint, etc.	set	1	119,102.47	119,102.47	5/3.1
4	LOCAL CABLE NETWORKS Belgrade-Zemun (included)-Work	Cables,closure,cabinet,etc. Laying of cable, Installation of terminal strip, Measuring and testing of the local cable, etc.	set	1	2,221.89	2,221.89	5/3.1
5	LOCAL CABLE NETWORKS Zemun (excluded)-Batajnica (excluded)-Work	Cables,closure,cabinet,etc. Laying of cable, Installation of terminal strip, Measuring and testing of the local cable, etc.	set	1	925.03	925.03	5/3.1
6	LOCAL CABLE NETWORKS Batajnica (included)-Stara Pazova-Work	Cables,closure,cabinet,etc. Laying of cable, Installation of terminal strip, Measuring and testing of the local cable, etc.	set	1	4,949.34	4,949.34	5/3.1
7	DISPATCH DEVICES BELGRADE - STARA PAZOVA-Work	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	159,818.48	159,818.48	5/3.1
8	RELOCATION AND PROTECTION OF LINE SIDE CABLES Belgrade-Zemun (included)-Material/Equipment/Equipment	Station channel,Sand,Cable,etc. Placing the station channel, Filling the channel with sand, Building the structure for placing the optic fiber joint, etc.	set	1	88,914.22	88,914.22	5/3.1

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9	RELOCATION AND PROTECTION OF LINE SIDE CABLES Zemun (excluded)-Batajnica (excluded)-Material/Equipment	Station channel,Sand,Cable,etc. Placing the station channel, Filling the channel with sand, Building the structure for placing the optic fiber joint, etc.	set	1	681,411.22	681,411.22	5/3.1
10	RELOCATION AND PROTECTION OF LINE SIDE CABLES Batajnica (included)-Stara Pazova-Material/Equipment	Station channel,Sand,Cable,etc. Placing the station channel, Filling the channel with sand, Building the structure for placing the optic fiber joint, etc.	set	1	833,717.29	833,717.29	5/3.1
11	LOCAL CABLE NETWORKS Belgrade-Zemun (included)-Material/Equipment	Cables,closure,cabinet,etc. Laying of cable, Installation of terminal strip, Measuring and testing of the local cable, etc.	set	1	15,553.25	15,553.25	5/3.1
12	LOCAL CABLE NETWORKS Zemun (excluded)-Batajnica (excluded)-Material/Equipment	Cables,closure,cabinet,etc. Laying of cable, Installation of terminal strip, Measuring and testing of the local cable, etc.	set	1	6,475.23	6,475.23	5/3.1
13	LOCAL CABLE NETWORKS Batajnica (included)-Stara Pazova-Material/Equipment	Cables,closure,cabinet,etc. Laying of cable, Installation of terminal strip, Measuring and testing of the local cable, etc.	set	1	34,645.39	34,645.39	5/3.1
14	DISPATCH DEVICES BELGRADE - STARA PAZOVA-Material/Equipment	Dispatching device,Controle console,Control telephone, etc. Installation, testing, Installation of the complete dispatch equipment, etc.	set	1	1,118,729.34	1,118,729.34	5/3.1
B	OPTICAL CABLES						
1	CABLE ROUTE - PROCUREMENT OF MATERIALS AND DELIVERY Belgrade-Zemun (included)	HDPE tubes,Plastic joint,PNK racks	set	1	489,040.44	489,040.44	5/3.2

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	CABLE ROUTE - PROCUREMENT OF MATERIALS AND DELIVERY Zemun (excluded)-Batajnica (excluded)	HDPE tubes,Plastic joint,PNK racks	set	1	652,781.96	652,781.96	5/3.2
3	CABLE ROUTE - PROCUREMENT OF MATERIALS AND DELIVERY Batajnica (included)-Stara Pazova	HDPE tubes,Plastic joint,PNK racks	set	1	895,546.39	895,546.39	5/3.2
4	CABLE ROUTE - WORKS Belgrade-Zemun (included)	Excavate trench for telecommunication cables, Backfill, Lay HDPE tubes,Draw HDPE tubes,Interconnect the laid HDPE tubes	set	1	205,337.71	205,337.71	5/3.2
5	CABLE ROUTE - WORKS Zemun (excluded)-Batajnica (excluded)	Excavate trench for telecommunication cables, Backfill, Lay HDPE tubes,Draw HDPE tubes,Interconnect the laid HDPE tubes	set	1	274,089.30	274,089.30	5/3.2
6	CABLE ROUTE - WORKS Batajnica (included)-Stara Pazova	Excavate trench for telecommunication cables, Backfill, Lay HDPE tubes,Draw HDPE tubes,Interconnect the laid HDPE tubes	set	1	376,020.93	376,020.93	5/3.2
7	CABLE PLANT- EQUIPMENT AND MATERIALS Belgrade-Zemun (included)	Optic cable,Fibre splice,Optic distributor	set	1	89,506.02	89,506.02	5/3.2
8	CABLE PLANT- EQUIPMENT AND MATERIALS Zemun (excluded)-Batajnica (excluded)	Optic cable,Fibre splice,Optic distributor	set	1	119,474.61	119,474.61	5/3.2
9	CABLE PLANT- EQUIPMENT AND MATERIALS Batajnica (included)-Stara Pazova	Optic cable,Fibre splice,Optic distributor	set	1	163,906.26	163,906.26	5/3.2
10	CABLE PLANT- WORKS Belgrade-Zemun (included)	Draw in an optic cable,Make a straight plice,Make a f ork splice	set	1	38,069.11	38,069.11	5/3.2
11	CABLE PLANT- WORKS Zemun (excluded)-Batajnica (excluded)	Draw in an optic cable,Make a straight plice,Make a f ork splice	set	1	50,815.49	50,815.49	5/3.2

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	CABLE PLANT- WORKS Batajnica (included)-Stara Pazova	Draw in an optic cable,Make a straight plice,Make a f ork splice	set	1	69,713.37	69,713.37	5/3.2
13	EQUIPMENT FOR OPTICAL INFRASTRUCTURE MAINTENANCE	OTDR,Splicer,Instalation tools	set	1	62,396.80	62,396.80	5/3.2
C	TELECOMMUNICATION SYSTEMS IN STATIONS AND STOPPING PLACES						
C-1	SECTION						
1	DISMANTLING OF THE EXISTING SYSTEMS-Work	Dismantling of parts of the existing telecommunications systems, Disassembly and reassembly of parts of the existing telecommunications systems	set	1	283.62	283.62	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Next Generation Firewall, DMZ, cabinet, etc.	set	1	102,812.90	102,812.90	5/3.3
3	OTN/DWDM TRANSMISSION SYSTEM -Work	NMS, NMS operator equipment, switch, etc.	set	1	49,492.01	49,492.01	5/3.3
4	VoIP COMMUNICATION SYSTEM- Work	Rack, panel, switch, etc. Assembly and installation of rack, installation and connection of equipment to cable, commissioning of all equipment, etc.	set	1	120,255.65	120,255.65	5/3.3
5	VIDEO SURVEILLANCE SYSTEM- Work	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	40,557.92	40,557.92	5/3.3
6	PUBLIC ADDRESS SYSTEM-Work	Operator equipment, Measurement by location. System configuration, Designing and preparation of documentation, etc.	set	1	11,344.87	11,344.87	5/3.3
7	CLOCK SYSTEM-Work	Software, time server, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	16,308.25	16,308.25	5/3.3
8	INFORMATION DISPLAY SYSTEM- Work	NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	10,635.82	10,635.82	5/3.3
9	SOFTWARE PACKAGE AVIS-Work	NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	75,727.02	75,727.02	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
10	INTEGRATION OF SECURITY SYSTEMS-Work	Highly sophisticated system, License for Alarm Management Package, license package, etc. System configuration, Designing and preparation of documentation, etc.	set	1	26,802.26	26,802.26	5/3.3
11	ENVIRONMENTAL MONITORING SYSTEM-Work	Server, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	33,750.99	33,750.99	5/3.3
12	SOS SYSTEM-Work	Software, interface device, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	2,552.60	2,552.60	5/3.3
13	AUTOMATIC FIRE DETECTION AFD-Work	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	6,665.11	6,665.11	5/3.3
14	EXPLOSIVE GAS DETECTION SYSTEM Works	System configuration, User training, Designing and preparation of documentation, etc.	set	1	18,151.80	18,151.80	5/3.3
15	DISMANTLING OF THE EXISTING SYSTEMS-Material/Equipment	Dismantling of parts of the existing telecommunications systems, Disassembly and reassembly of parts of the existing telecommunications systems	set	1	1,985.35	1,985.35	5/3.3
16	COMMON COMMUNICATION NETWORK-Material/Equipment	Next Generation Firewall, DMZ, cabinet, etc.	set	1	719,690.33	719,690.33	5/3.3
17	OTN/DWDM TRANSMISSION SYSTEM -Material/Equipment	NMS, NMS operator equipment, switch, etc.	set	1	346,444.04	346,444.04	5/3.3
18	VoIP COMMUNICATION SYSTEM-Material/Equipment	Rack, panel, switch, etc. Assembly and installation of rack, installation and connection of equipment to cable, commissioning of all equipment, etc.	set	1	841,789.52	841,789.52	5/3.3
19	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	283,905.43	283,905.43	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
20	PUBLIC ADDRESS SYSTEM-Material/Equipment	Operator equipment, Measurement by location. System configuration, Designing and preparation of documentation, etc.	set	1	79,414.11	79,414.11	5/3.3
21	CLOCK SYSTEM-Material/Equipment	Software, time server, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	114,157.78	114,157.78	5/3.3
22	INFORMATION DISPLAY SYSTEM-Material/Equipment	NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	74,450.72	74,450.72	5/3.3
23	SOFTWARE PACKAGE AVIS-Material/Equipment	NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	530,089.16	530,089.16	5/3.3
24	INTEGRATION OF SECURITY SYSTEMS-Material/Equipment	Highly sophisticated system, License for Alarm Management Package, license package, etc. System configuration, Designing and preparation of documentation, etc.	set	1	187,615.82	187,615.82	5/3.3
25	ENVIRONMENTAL MONITORING SYSTEM-Material/Equipment	Server, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	236,256.96	236,256.96	5/3.3
26	SOS SYSTEM-Material/Equipment	Software, interface device, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	17,868.17	17,868.17	5/3.3
27	AUTOMATIC FIRE DETECTION AFD-Material/Equipment	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	46,655.79	46,655.79	5/3.3
C-2	BELGRADE CENTER STATION						
1	MAIN CABLE ROUTES-Work	Cable trays, installation hoses, firestop compaund, etc.	set	1	850.87	850.87	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment	set	1	43,819.57	43,819.57	5/3.3
3	OTN/DWDM TRANSMISSION SYSTEM -Work	Patch cords, OTN / DWDM device. Installation and connection of active network equipment	set	1	15,457.39	15,457.39	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	VIDEO SURVEILLANCE SYSTEM-Work	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	15,741.01	15,741.01	5/3.3
5	PUBLIC ADDRESS SYSTEM-Work	Call station, Keypad, Network audio controller, controls and routes, etc. Mounting and connection of the call station, network controller, network audio module, etc.	set	1	992.68	992.68	5/3.3
6	EQUIPMENT FOR CONNECTION TO EXISTING INTRANET Material	NMS operator equipment. Core switch, switch, Small sundry items and other unspecified material, etc.	set	1	65,800.26	65,800.26	5/3.3
7	MAIN CABLE ROUTES-Material/Equipment	Cable trays, installation hoses, firestop compaund, etc.	set	1	5,956.06	5,956.06	5/3.3
8	COMMON COMMUNICATION NETWORK-Material/Equipment	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment	set	1	306,736.98	306,736.98	5/3.3
9	OTN/DWDM TRANSMISSION SYSTEM -Material/Equipment	Patch cords, OTN / DWDM device. Installation and connection of active network equipment	set	1	108,201.72	108,201.72	5/3.3
10	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	110,187.07	110,187.07	5/3.3
11	PUBLIC ADDRESS SYSTEM-Material/Equipment	Call station, Keypad, Network audio controller, controls and routes, etc. Mounting and connection of the call station, network controller, network audio module, etc.	set	1	6,948.73	6,948.73	5/3.3
C-3	INDJIJA STATION-						
1	MAIN CABLE ROUTES Works	Cable trays, installation hoses, firestop compaund, etc.	set	1	2,268.97	2,268.97	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Rack, Modular patch panel, router, Voice-panel, etc. Assembly and installation of rack, Installation and connection of active network equipment.	set	1	5,956.06	5,956.06	5/3.3
3	OTN/DWDM TRANSMISSION SYSTEM -Work	Rack, patch cords, OTN / DWDM device, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	12,479.36	12,479.36	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	VIDEO SURVEILLANCE SYSTEM-Work	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	15,599.20	15,599.20	5/3.3
5	PUBLIC ADDRESS SYSTEM-Work	Call station, Keypad, Network audio controller, controls and routes, etc. Mounting and connection of the call station, network controller, network audio module, etc.	set	1	1,843.54	1,843.54	5/3.3
6	INTEGRATION OF SECURITY SYSTEMS-Work	Workstations	set	1	1,276.30	1,276.30	5/3.3
7	COMMON COMMUNICATION NETWORK-Material/Equipment	Rack, Modular patch panel, router, Voice-panel, etc. Assembly and installation of rack, Installation and connection of active network equipment.	set	1	41,692.41	41,692.41	5/3.3
8	OTN/DWDM TRANSMISSION SYSTEM -Material/Equipment	Rack, patch cords, OTN / DWDM device, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	87,355.52	87,355.52	5/3.3
9	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	109,194.40	109,194.40	5/3.3
10	PUBLIC ADDRESS SYSTEM-Material/Equipment	Call station, Keypad, Network audio controller, controls and routes, etc. Mounting and connection of the call station, network controller, network audio module, etc.	set	1	12,904.79	12,904.79	5/3.3
11	INTEGRATION OF SECURITY SYSTEMS-Material/Equipment	Workstations	set	1	8,934.09	8,934.09	5/3.3
C-4	SENJAK TUNNEL						
1	MAIN CABLE ROUTES-Work	Cable trays, installation hoses, firestop compaund, etc.	set	1	567.24	567.24	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment, Laying of fiber optic cables, etc.	set	1	2,836.22	2,836.22	5/3.3
3	VIDEO SURVEILLANCE SYSTEM-Work	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	2,127.16	2,127.16	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	MAIN CABLE ROUTES-Material/Equipment	Cable trays, installation hoses, firestop compaund, etc.	set	1	3,970.71	3,970.71	5/3.3
5	COMMON COMMUNICATION NETWORK-Material/Equipment	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment, Laying of fiber optic cables, etc.	set	1	19,853.53	19,853.53	5/3.3
6	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	14,890.14	14,890.14	5/3.3
C-5	SAVA BRIDGE						
1	MAIN CABLE ROUTES-Work	Cable trays, installation hoses, firestop compaund, etc.	set	1	425.43	425.43	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment, Laying of fiber optic cables, etc.	set	1	2,694.41	2,694.41	5/3.3
3	VIDEO SURVEILLANCE SYSTEM-Work	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	2,127.16	2,127.16	5/3.3
4	MAIN CABLE ROUTES-Material/Equipment	Cable trays, installation hoses, firestop compaund, etc.	set	1	2,978.03	2,978.03	5/3.3
5	COMMON COMMUNICATION NETWORK-Material/Equipment	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment, Laying of fiber optic cables, etc.	set	1	18,860.85	18,860.85	5/3.3
6	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	14,890.14	14,890.14	5/3.3
C-6	BEZANIJA TUNNEL						
1	MAIN CABLE ROUTES-Work	Cable trays, installation hoses, firestop compaund, etc.	set	1	283.62	283.62	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment, Laying of fiber optic cables, etc.	set	1	2,694.41	2,694.41	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	VIDEO SURVEILLANCE SYSTEM-Work	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	1,985.35	1,985.35	5/3.3
4	MAIN CABLE ROUTES-Material/Equipment	Cable trays, installation hoses, firestop compaund, etc.	set	1	1,985.35	1,985.35	5/3.3
5	COMMON COMMUNICATION NETWORK-Material/Equipment	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment, Laying of fiber optic cables, etc.	set	1	18,860.85	18,860.85	5/3.3
6	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	13,897.47	13,897.47	5/3.3
C-7	EEP - Belgrade-Zemun (included)						
1	MAIN CABLE ROUTES-Work	Cable trays, installation hoses, firestop compaund, etc.	set	1	709.05	709.05	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Next Generation Firewall, DMZ, cabinet, etc.	set	1	4,207.06	4,207.06	5/3.3
3	VIDEO SURVEILLANCE SYSTEM-Work	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	2,458.06	2,458.06	5/3.3
4	CLOCK SYSTEM-Work	Software, time server, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	141.81	141.81	5/3.3
5	ACCESS CONTROL SYSTEM Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	7,941.41	7,941.41	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	INTRUSION DETECTION SYSTEM Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	6,806.92	6,806.92	5/3.3
7	AUTOMATIC FIRE DETECTION AFD-Work	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	1,559.92	1,559.92	5/3.3
8	FIRE ALARM SYSTEM WITH FIRE EXTINGUISHING MANAGEMENT-Work	System configuration, Designing and preparation of documentation, etc.	set	1	1,276.30	1,276.30	5/3.3
9	MAIN CABLE ROUTES- Material/Equipment	Cable trays, installation hoses, firestop compaund, etc.	set	1	4,963.38	4,963.38	5/3.3
10	COMMON COMMUNICATION NETWORK-Material/Equipment	Next Generation Firewall, DMZ, cabinet, etc.	set	1	29,449.39	29,449.39	5/3.3
11	VIDEO SURVEILLANCE SYSTEM- Material/Equipment	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	17,206.39	17,206.39	5/3.3
12	CLOCK SYSTEM-Material/Equipment	Software, time server, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	992.68	992.68	5/3.3
13	AUTOMATIC FIRE DETECTION AFD-Material/Equipment	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	10,919.44	10,919.44	5/3.3
14	FIRE ALARM SYSTEM WITH FIRE EXTINGUISHING MANAGEMENT- Material/Equipment	System configuration, Designing and preparation of documentation, etc.	set	1	8,934.09	8,934.09	5/3.3
C-8	EEP - Zemun (excluded)-Batajnica (excluded)						
1	MAIN CABLE ROUTES-Work	Cable trays, installation hoses, firestop compaund, etc.	set	1	141.81	141.81	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
2	COMMON COMMUNICATION NETWORK-Work	Next Generation Firewall, DMZ, cabinet, etc.	set	1	945.41	945.41	5/3.3
3	VIDEO SURVEILLANCE SYSTEM-Work	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	189.08	189.08	5/3.3
4	MAIN CABLE ROUTES-Material/Equipment	Cable trays, installation hoses, firestop compaund, etc.	set	1	992.68	992.68	5/3.3
5	COMMON COMMUNICATION NETWORK-Material/Equipment	Next Generation Firewall, DMZ, cabinet, etc.	set	1	6,617.84	6,617.84	5/3.3
6	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	1,323.57	1,323.57	5/3.3
C-9	EEP - Batajnica (included)-Stara Pazova						
1	MAIN CABLE ROUTES-Work	Cable trays, installation hoses, firestop compaund, etc.	set	1	1,276.30	1,276.30	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Next Generation Firewall, DMZ, cabinet, etc.	set	1	6,901.46	6,901.46	5/3.3
3	VIDEO SURVEILLANCE SYSTEM-Work	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	4,443.41	4,443.41	5/3.3
4	ACCESS CONTROL SYSTEM Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	11,344.87	11,344.87	5/3.3
5	INTRUSION DETECTION SYSTEM Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	15,882.82	15,882.82	5/3.3
6	AUTOMATIC FIRE DETECTION AFD-Work	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	3,119.84	3,119.84	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	MAIN CABLE ROUTES-Material/Equipment	Cable trays, installation hoses, firestop compaund, etc.	set	1	8,934.09	8,934.09	5/3.3
8	COMMON COMMUNICATION NETWORK-Material/Equipment	Next Generation Firewall, DMZ, cabinet, etc.	set	1	48,310.24	48,310.24	5/3.3
9	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	31,103.86	31,103.86	5/3.3
10	AUTOMATIC FIRE DETECTION AFD-Material/Equipment	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	21,838.88	21,838.88	5/3.3
C-10	ANTENNA POLE LOCATION						
1	MAIN CABLE ROUTES-Work	Cable trays, installation hoses, firestop compaund, etc.	set	1	141.81	141.81	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment, Laying of fiber optic cables, etc.	set	1	1,276.30	1,276.30	5/3.3
3	VIDEO SURVEILLANCE SYSTEM-Work	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	283.62	283.62	5/3.3
4	MAIN CABLE ROUTES-Material/Equipment	Cable trays, installation hoses, firestop compaund, etc.	set	1	992.68	992.68	5/3.3
5	COMMON COMMUNICATION NETWORK-Material/Equipment	Rack, Fiber optic patch panel, router, etc. Assembly and installation of rack, Installation and connection of active network equipment, Laying of fiber optic cables, etc.	set	1	8,934.09	8,934.09	5/3.3
6	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Network storage device, Client video monitoring work station, Professional monitor, etc. Mounting and connection of the workstation, monitor, storage device.	set	1	1,985.35	1,985.35	5/3.3
C-11	ANTENNA POLE LOCATION INCLUDING BUILDING FOR TK EQUIPMENT						

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	MAIN CABLE ROUTES-Work	Cable trays, installation hoses, firestop compaund, etc.	set	1	567.24	567.24	5/3.3
2	COMMON COMMUNICATION NETWORK-Work	Next Generation Firewall, DMZ, cabinet, etc.	set	1	2,978.03	2,978.03	5/3.3
3	VIDEO SURVEILLANCE SYSTEM-Work	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	992.68	992.68	5/3.3
4	CLOCK SYSTEM-Work	Software, time server, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	141.81	141.81	5/3.3
5	ACCESS CONTROL SYSTEM Material	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	5,672.44	5,672.44	5/3.3
6	INTRUSION DETECTION SYSTEM Material	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	6,806.92	6,806.92	5/3.3
7	AUTOMATIC FIRE DETECTION AFD-Work	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	1,134.49	1,134.49	5/3.3
8	FIRE ALARM SYSTEM WITH FIRE EXTINGUISHING MANAGEMENT-Work	System configuration, Designing and preparation of documentation, etc.	set	1	1,701.73	1,701.73	5/3.3
9	MAIN CABLE ROUTES- Material/Equipment	Cable trays, installation hoses, firestop compaund, etc.	set	1	3,970.71	3,970.71	5/3.3
10	COMMON COMMUNICATION NETWORK-Material/Equipment	Next Generation Firewall, DMZ, cabinet, etc.	set	1	20,846.20	20,846.20	5/3.3
11	VIDEO SURVEILLANCE SYSTEM- Material/Equipment	licenses for cameras, licenses for workstations, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	6,948.73	6,948.73	5/3.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	CLOCK SYSTEM-Material/Equipment	Software, time server, NMS operator equipment. System configuration, Designing and preparation of documentation, etc.	set	1	992.68	992.68	5/3.3
13	AUTOMATIC FIRE DETECTION AFD-Material/Equipment	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	7,941.41	7,941.41	5/3.3
14	FIRE ALARM SYSTEM WITH FIRE EXTINGUISHING MANAGEMENT-Material/Equipment	System configuration, Designing and preparation of documentation, etc.	set	1	11,912.12	11,912.12	5/3.3
D TELECOMMUNICATION SYSTEMS IN NOVI BEOGRAD RAILWAY STATION							
1	DISMANTLING OF THE EXISTING SYSTEMS-Work	Dismantling of parts of the existing telecommunications systems, Disassembly and reassembly of parts of the existing telecommunications systems	set	1	141.81	141.81	5/3.4
2	MAIN CABLE ROUTES-Work	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	3,403.46	3,403.46	5/3.4
3	COMMON COMMUNICATION NETWORK-Work	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	24,249.66	24,249.66	5/3.4
4	VIDEO SURVEILLANCE SYSTEM-Work	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	14,606.52	14,606.52	5/3.4
5	PUBLIC ADDRESS SYSTEM-Work	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	12,479.36	12,479.36	5/3.4
6	CLOCK SYSTEM-Work	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	7,657.79	7,657.79	5/3.4

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	INFORMATION DISPLAY SYSTEM-Work	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	16,166.44	16,166.44	5/3.4
8	ACCESS CONTROL SYSTEM-Work	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	1,701.73	1,701.73	5/3.4
9	INTRUSION DETECTION SYSTEM-Work	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	1,276.30	1,276.30	5/3.4
10	CABLE ENTRY-Work	Distribution cabinet, Halogen-free corrugated installation hose, Installation cable,etc. Assembly and mounting of cabinet, mounting the equipment, Installation of pipes, etc.	set	1	141.81	141.81	5/3.4
11	DISPATCHING DEVICES-Work	Distribution cabinet, Loud sound bell, LB phone,etc. Assembly and mounting of cabinet, mounting the equipment, loud sound bell, etc.	set	1	283.62	283.62	5/3.4
12	AUTOMATIC FIRE DETECTION AFD-Work	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	2,694.41	2,694.41	5/3.4
13	DISMANTLING OF THE EXISTING SYSTEMS-Material/Equipment	Dismantling of parts of the existing telecommunications systems, Disassembly and reassembly of parts of the existing telecommunications systems	set	1	992.68	992.68	5/3.4
14	MAIN CABLE ROUTES-Material/Equipment	Pipe, Sand, Warning tape, etc. Excavation of trench, Laying of PE pipes, Installation of cable trays, etc.	set	1	23,824.23	23,824.23	5/3.4
15	COMMON COMMUNICATION NETWORK-Material/Equipment	Rack, panel, switch, etc. Assembly and installation of rack, Installation and connection of active network equipment, Installation of adapter, etc.	set	1	169,747.65	169,747.65	5/3.4

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
16	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Cameras, Aluminum enclosure, Mounting bracket, etc. Mounting and connection of mounting brackets, workstation, etc.	set	1	102,245.66	102,245.66	5/3.4
17	PUBLIC ADDRESS SYSTEM-Material/Equipment	Call station, Keypad, Cabinet speaker, etc. Laying of cables, Mounting and connection of the call station, Mounting and connection of cabinet loudspeaker, etc.	set	1	87,355.52	87,355.52	5/3.4
18	CLOCK SYSTEM-Material/Equipment	Slave clock, Fixing bracket, Small sundry items and other unspecified material, etc. Mounting and connection of slave clock, Fixing bracket, etc.	set	1	53,604.52	53,604.52	5/3.4
19	INFORMATION DISPLAY SYSTEM-Material/Equipment	TFT information display, Bracket, Small sundry items and other unspecified material. Mounting and connection of mounting information display, Mounting of bracket, etc.	set	1	113,165.10	113,165.10	5/3.4
20	ACCESS CONTROL SYSTEM-Material/Equipment	Controller 4 Wiegand, power supply, Battery, etc. Laying of cables, Mounting and connection of the reader, Mounting and connection of the button, etc.	set	1	11,912.12	11,912.12	5/3.4
21	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit, The main panel, Gateway module, etc. Assembly, mounting and connection of the housing for system equipment, Mounting and connection of the motion detector, the glass break detector , etc.	set	1	8,934.09	8,934.09	5/3.4
22	CABLE ENTRY-Material/Equipment	Distribution cabinet, Halogen-free corrugated installation hose, Installation cable,etc. Assembly and mounting of cabinet, mounting the equipment, Installation of pipes, etc.	set	1	992.68	992.68	5/3.4
23	DISPATCHING DEVICES-Material/Equipment	Distribution cabinet, Loud sound bell, LB phone,etc. Assembly and mounting of cabinet, mounting the equipment, loud sound bell, etc.	set	1	1,985.35	1,985.35	5/3.4
24	AUTOMATIC FIRE DETECTION AFD-Material/Equipment	NMS operator equipment, System configuration, Designing and preparation of documentation, etc. System configuration, Designing and preparation of documentation, etc.	set	1	18,860.85	18,860.85	5/3.4

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
E	TELECOMMUNICATION SYSTEMS IN TOŠIN BUNAR STOPPING PLACE						
1	MAIN CABLE ROUTES Material	Perforated shielded cable tray made of steel sheet. Halogen-free installation corrugated hose. Supply and delivery of firestop compound.	set	1	5,672.44	5,672.44	5/3.5
2	COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack. Managed Layer 2 switch with . Freestanding antivandal cabinet for outdoor installation. Assembly and installation of freestanding. Material, manufacturing, construction of foundation, assembly and mounting of outdoor rack cabinet. Installation and connection of active network equipment with all necessary equipment.	set	1	6,665.11	6,665.11	5/3.5
3	VIDEO SURVEILLANCE SYSTEM - Work	IP ONVIF Day / Night full HD 1080p camera. Aluminum enclosure. Pole mount adapter . Mounting and connection of box camera. Mounting and connection of aluminium housing . Mounting and connection of the dome camera adapter.	set	1	5,530.63	5,530.63	5/3.5
4	PUBLIC ADDRESS SYSTEM-Work	Horn. Waterproof distribution box equipped with a serial terminal. Distribution box equipped with serial terminals. Laying cables. Mounting and connection of network audio module Audio. Measuring and testing.	set	1	2,552.60	2,552.60	5/3.5

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CLOCK SYSTEM-Work	Single-sided IP analog slave clock. Double-sided IP analog slave clock. Small sundry items and other unspecified material. Mounting and connection. Installation of bracket for single-sided or double-sided clock. Installation of fixed bracket for single-sided or double-sided clock.	set	1	1,276.30	1,276.30	5/3.5
6	INFORMATION DISPLAY SYSTEM-Work	TFT information display. Bracket. Small sundry items and other unspecified material. Mounting and connection of the single-sided outdoor mounting information . Mounting of bracket for single-sided information display.	set	1	2,552.60	2,552.60	5/3.5
7	ACCESS CONTROL SYSTEM-Work	Box for the accommodation of controller with two DIN rails. Controller 4 Wiegand with CF card. External power supply with incorporated UPS. Laying cables. Assembly, installation and connection. Measuring and testing.	set	1	709.05	709.05	5/3.5
8	INTRUSION DETECTION SYSTEM-Work	Enclosure kit. Gateway module. Module for connection of communicators. Laying cables. Assembly, mounting and connection. Measuring and testing.	set	1	850.87	850.87	5/3.5
9	AUTOMATIC FIRE DETECTION AFD-Work	steel housing with cover. power supply unit. Bracket. Assembly and mounting. Installation of pipes. Laying cables.	set	1	1,134.49	1,134.49	5/3.5

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
10	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT-Work	Subsystem central unit for fire alarming and fire extinguishing management. Conventional optical smoke detector. Manual call point for stopping. Installation pipes. Laying cables. Mounting and connection of subsystem central unit.	set	1	1,701.73	1,701.73	5/3.5
11	COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rack. Managed Layer 2 switch with . Freestanding antivandal cabinet for outdoor installation. Assembly and installation of freestanding. Material, manufacturing, construction of foundation, assembly and mounting of outdoor rack cabinet. Installation and connection of active network equipment with all necessary equipment.	set	1	46,655.79	46,655.79	5/3.5
12	VIDEO SURVEILLANCE SYSTEM - Material/Equipment	IP ONVIF Day / Night full HD 1080p camera. Aluminum enclosure. Pole mount adapter . Mounting and connection of box camera. Mounting and connection of aluminium housing . Mounting and connection of the dome camera adapter.	set	1	38,714.38	38,714.38	5/3.5
13	PUBLIC ADDRESS SYSTEM- Material/Equipment	Horn. Waterproof distribution box equipped with a serial terminal. Distribution box equipped with serial terminals. Laying cables. Mounting and connection of network audio module Audio. Measuring and testing.	set	1	17,868.17	17,868.17	5/3.5

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
14	CLOCK SYSTEM-Material/Equipment	Single-sided IP analog slave clock. Double-sided IP analog slave clock. Small sundry items and other unspecified material. Mounting and connection. Installation of bracket for single-sided or double-sided clock. Installation of fixed bracket for single-sided or double-sided clock.	set	1	8,934.09	8,934.09	5/3.5
15	INFORMATION DISPLAY SYSTEM-Material/Equipment	TFT information display. Bracket. Small sundry items and other unspecified material. Mounting and connection of the single-sided outdoor mounting information . Mounting of bracket for single-sided information display.	set	1	17,868.17	17,868.17	5/3.5
16	ACCESS CONTROL SYSTEM-Material/Equipment	Box for the accommodation of controller with two DIN rails. Controller 4 Wiegand with CF card. External power supply with incorporated UPS. Laying cables. Assembly, installation and connection. Measuring and testing.	set	1	4,963.38	4,963.38	5/3.5
17	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit. Gateway module. Module for connection of communicators. Laying cables. Assembly, mounting and connection. Measuring and testing.	set	1	5,956.06	5,956.06	5/3.5

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
18	AUTOMATIC FIRE DETECTION AFD-Material/Equipment	steel housing with cover. power supply unit. Bracket. Assembly and mounting. Installation of pipes. Laying cables.	set	1	7,941.41	7,941.41	5/3.5
19	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT-Material/Equipment	Subsystem central unit for fire alarming and fire extinguishing management. Conventional optical smoke detector. Manual call point for stopping. Installation pipes. Laying cables. Mounting and connection of subsystem central unit.	set	1	11,912.12	11,912.12	5/3.5
F TELECOMMUNICATION SYSTEMS IN ZEMUN RAILWAY STATION							
F-1	PART 01 ZEMUN PASSENGER STATION						
1	DISMANTLING OF THE EXISTING SYSTEMS-Work	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	141.81	141.81	5/3.6
2	MAIN CABLE ROUTE-Work	Pipe,Fittings for branching,Halogen-free installation corrugated hose,etc. Marking the route and facilities/buildings,Excavation of trench,Laying of PE pipes,etc.	set	1	2,268.97	2,268.97	5/3.6
3	COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack,ASN type 2, Layer 3 switch,Managed Layer 2 switch,etc. Assembly and installation of freestanding;Material, manufacturing, construction,Laying of fiber optic cables,etc.	set	1	25,100.53	25,100.53	5/3.6

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
4	VIDEO SURVEILLANCE SYSTEM-Work	Aluminum enclosure,Mounting bracket,Pole mount adapter,etc. Mounting and connection of box camera,Mounting and connection of aluminium housing,Mounting and connection of mounting brackets,etc	set	1	14,322.90	14,322.90	5/3.6
5	PUBLIC ADDRESS SYSTEM-Work	Ceiling speaker for indoor installation,Unidirectional sound projector ,Waterproof distribution box,etc. Laying of cables,Mounting and connection of the call station,Measuring and testing,etc.	set	1	7,799.60	7,799.60	5/3.6
6	CLOCK SYSTEM-Work	Single-sided IP analog slave clock,Double-sided IP analog slave clock,Fixing bracket,etc. Mounting and connection,Instalation of bracket.	set	1	5,105.19	5,105.19	5/3.6
7	INFORMATION DISPLAY SYSTEM-Work	TFT information display for indoor mounting,TFT information display for outdoor mounting,Bracket for mounting. Mounting and connection,Mounting of bracket for single-sided,Mounting of bracket for double-sided,etc.	set	1	11,770.30	11,770.30	5/3.6
8	SOS SYSTEM-Work	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	283.62	283.62	5/3.6
9	ACCESS CONTROL SYSTEM-Work	Box for the accommodation,Controller 4 Wiegand with CF card, UPS,etc. Laying of cables,Assembly,Mounting and connection.	set	1	425.43	425.43	5/3.6
10	INTRUSION DETECTION SYSTEM-Work	Enclosure kit,The main panel,Gateway module,etc. Laying of cables,Assembly,Mounting and connection.	set	1	709.05	709.05	5/3.6

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	ENTRY OF THE CABLES owned by Telekom Srbija a.d.-Work	Distribution cabinet, Halogen-free, Installation cable, type, etc. Assembly and mounting, Laying of cables, Designing and preparation.	set	1	141.81	141.81	5/3.6
12	DISPATCHING DEVICES-Work	Distribution cabinet, Loud sound bell, LB phone, etc. Assembly and mounting of cabinet, Mounting and connection, Laying of cables, etc.	set	1	141.81	141.81	5/3.6
13	AUTOMATIC FIRE DETECTION - Work	Addressable Fire Control Panel, Relay module, Battery, etc. Assembly and mounting of the cabinet, Installation of pipes, Laying of cables, etc.	set	1	2,694.41	2,694.41	5/3.6
14	DISMANTLING OF THE EXISTING SYSTEMS-Material/Equipment	Dismantling parts of existing telecommunication systems, Dismantling and reassembly of parts of existing telecommunication systems	set	1	992.68	992.68	5/3.6
15	MAIN CABLE ROUTE-Material/Equipment	Pipe, Fittings for branching, Halogen-free installation corrugated hose, etc. Marking the route and facilities/buildings, Excavation of trench, Laying of PE pipes, etc.	set	1	15,882.82	15,882.82	5/3.6
16	COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rack, ASN type 2, Layer 3 switch, Managed Layer 2 switch, etc. Assembly and installation of freestanding; Material, manufacturing, construction, Laying of fiber optic cables, etc.	set	1	175,703.71	175,703.71	5/3.6
17	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Aluminum enclosure, Mounting bracket, Pole mount adapter, etc. Mounting and connection of box camera, Mounting and connection of aluminium housing, Mounting and connection of mounting brackets, etc.	set	1	100,260.31	100,260.31	5/3.6
18	PUBLIC ADDRESS SYSTEM-Material/Equipment	Ceiling speaker for indoor installation, Unidirectional sound projector, Waterproof distribution box, etc. Laying of cables, Mounting and connection of the call station, Measuring and testing, etc.	set	1	54,597.20	54,597.20	5/3.6

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
19	CLOCK SYSTEM-Material/Equipment	Single-sided IP analog slave clock,Double-sided IP analog slave clock,Fixing bracket,etc. Mounting and connection,Instalation of bracket.	set	1	35,736.35	35,736.35	5/3.6
20	INFORMATION DISPLAY SYSTEM-Material/Equipment	TFT information display for indoor mounting,TFT information display for outdoor mounting,Bracket for mounting. Mounting and connection,Mounting of bracket for single-sided,Mounting of bracket for double-sided,etc.	set	1	82,392.13	82,392.13	5/3.6
21	SOS SYSTEM-Material/Equipment	The central panel,A call-quit combination device,Distribution box,etc. Laying of cables,Mounting and connecting,Assembly and mounting ,etc.	set	1	1,985.35	1,985.35	5/3.6
22	ACCESS CONTROL SYSTEM-Material/Equipment	Box for the accommodation,Controller 4 Wiegand with CF card, UPS,etc. Laying of cables,Assembly,Mounting and connection.	set	1	2,978.03	2,978.03	5/3.6
23	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit,The main panel,Gateway module,etc. Laying of cables,Assembly,Mounting and connection.	set	1	4,963.38	4,963.38	5/3.6
24	ENTRY OF THE CABLES owned by Telekom Srbija a.d.-Material/Equipment	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	992.68	992.68	5/3.6
25	DISPATCHING DEVICES-Material/Equipment	Distribution cabinet,Loud sound bell,LB phone,etc. Assembly and mounting of cabinet,Mounting and connection,Laying of cables,etc.	set	1	992.68	992.68	5/3.6
26	AUTOMATIC FIRE DETECTION -Material/Equipment	Addressable Fire Control Panel ,Relay module,Battery,etc. Assembly and mounting of the cabinet ,Installation of pipes,Laying of cables,etc.	set	1	18,860.85	18,860.85	5/3.6
F-2	PART 02 ZEMUN INTERLOCKING BUILDING						

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	DISMANTLING OF THE EXISTING SYSTEMS Works	Dismantling parts of existing telecommunication systems, Dismantling and reassembly of parts of existing telecommunication systems	set	1	2,268.97	2,268.97	5/3.6
2	MAIN CABLE ROUTE-Work	Pipe, Fittings for branching, Halogen-free installation corrugated hose, etc. Marking the route and facilities/buildings, Excavation of trench, Laying of PE pipes, etc.	set	1	7,374.17	7,374.17	5/3.6
3	COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack, ASN type 2, Layer 3 switch, Managed Layer 2 switch, etc. Assembly and installation of freestanding; Material, manufacturing, construction, Laying of fiber optic cables, etc.	set	1	14,606.52	14,606.52	5/3.6
4	VIDEO SURVEILLANCE SYSTEM-Work	Aluminum enclosure, Mounting bracket, Pole mount adapter, etc. Mounting and connection of box camera, Mounting and connection of aluminium housing, Mounting and connection of mounting brackets, etc.	set	1	5,814.25	5,814.25	5/3.6
5	PUBLIC ADDRESS SYSTEM-Work	Ceiling speaker for indoor installation, Unidirectional sound projector, Waterproof distribution box, etc. Laying of cables, Mounting and connection of the call station, Measuring and testing, etc.	set	1	1,985.35	1,985.35	5/3.6
6	CLOCK SYSTEM-Work	Single-sided IP analog slave clock, Double-sided IP analog slave clock, Fixing bracket, etc. Mounting and connection, Installation of bracket	set	1	2,552.60	2,552.60	5/3.6
7	ACCESS CONTROL SYSTEM-Work	Box for the accommodation, Controller 4 Wiegand with CF card, UPS, etc. Laying of cables, Assembly, Mounting and connection.	set	1	2,978.03	2,978.03	5/3.6
8	INTRUSION DETECTION SYSTEM-Work	Enclosure kit, The main panel, Gateway module, etc. Laying of cables, Assembly, Mounting and connection.	set	1	1,559.92	1,559.92	5/3.6

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9	ENTRY OF THE CABLES owned by Telekom Srbija a.d.-Work	Distribution cabinet, Halogen-free, Installation cable, type, etc. Assembly and mounting, Laying of cables, Designing and preparation.	set	1	141.81	141.81	5/3.6
10	DISPATCHING DEVICES-Work	Distribution cabinet, Loud sound bell, LB phone, etc. Assembly and mounting of cabinet, Mounting and connection, Laying of cables, etc.	set	1	283.62	283.62	5/3.6
11	AUTOMATIC FIRE DETECTION-Work	Addressable Fire Control Panel, Relay module, Battery, etc. Assembly and mounting of the cabinet, Installation of pipes, Laying of cables, etc.	set	1	7,090.55	7,090.55	5/3.6
12	DATA CENTER - FIXED FIRE ALARM SYSTEM WITH FIRE EXTINGUISHING MANAGEMENT Material-work	Subsystem central unit, Conventional optical smoke detector, Manual call point, etc. Installation of pipes, Laying of cables, Mounting and connection, etc.	set	1	10,210.39	10,210.39	5/3.6
13	EXPLOSIVE GAS DETECTION SYSTEM-Work	Central unit, Detector, Safety barrier, etc. Installation of pipes, Laying of cables, Mounting and connection, etc.	set	1	850.87	850.87	5/3.6
14	DATA CENTER - VIDEO SURVEILLANCE SYSTEM-Work	Client workstation, Professional monitor, Small sundry items and other unspecified material, etc. Mounting and connection of the workstation, Mounting and connection of the monitor.	set	1	1,701.73	1,701.73	5/3.6
15	DATA CENTER - INTEGRATION OF SECURITY SYSTEMS-Work	Workstations with two 32" monitors for Administrator on duty. Freestanding 42U rack - enclosure	set	1	1,276.30	1,276.30	5/3.6
16	DATA CENTER - SERVER ROOM EQUIPMENT-Work	Mounting and connection of cabinets. Fiber optic patch panel, KVM switch, Storage unit, etc.	set	1	23,824.23	23,824.23	5/3.6
17	DATA CENTER - SERVER ROOM ACTIVE EQUIPMENT-Work	Installation and connection of active network, Small sundry items.	set	1	460,176.38	460,176.38	5/3.6

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
18	SUBREGIONAL STATION EQUIPMENT - COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack dimensions,TOR DC switch. Assembly and installation of freestanding rack.	set	1	709.05	709.05	5/3.6
19	SUBREGIONAL STATION EQUIPMENT - OTN/DWDM TRANSMISSION SYSTEM-Work	Freestanding 42U rack dimensions,OTN / DWDM device. Assembly and installation,Installation and connection.	set	1	12,479.36	12,479.36	5/3.6
20	SUBREGIONAL STATION EQUIPMENT - VIDEO SURVEILLANCE SYSTEM-Work	Network storage device,Client video monitoring work station,Professional monitor for video surveillance systems,etc. Mounting and connection of the workstation,Mounting and connection of the monitor,Mounting and connection of the storage.	set	1	21,838.88	21,838.88	5/3.6
21	SUBREGIONAL STATION EQUIPMENT - PUBLIC ADDRESS SYSTEM-Work	Call station,Keypad for the call station,Network audio controller,etc. Mounting and connection of the call station,Mounting and connection of the network,Measuring and testing,etc.	set	1	2,268.97	2,268.97	5/3.6
22	SUBREGIONAL STATION EQUIPMENT - INTEGRATION OF SECURITY SYSTEMS-Work	Workstations with two 32 " monitors	set	1	1,276.30	1,276.30	5/3.6
23	MAIN CABLE ROUTE- Material/Equipment	Pipe,Fittings for branching,Halogen-free installation corrugated hose,etc. Marking the route and facilities/buildings,Excavation of trench,Laying of PE pipes,etc.	set	1	51,619.17	51,619.17	5/3.6
24	COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rack,ASN type 2, Layer 3 switch,Managed Layer 2 switch,etc. Assembly and installation of freestanding;Material, manufacturing, construction,Laying of fiber optic cables,etc.	set	1	102,245.66	102,245.66	5/3.6

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
25	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Aluminum enclosure,Mounting bracket,Pole mount adapter,etc. Mounting and connection of box camera,Mounting and connection of aluminium housing,Mounting and connection of mounting brackets,etc.	set	1	40,699.73	40,699.73	5/3.6
26	PUBLIC ADDRESS SYSTEM-Material/Equipment	Ceiling speaker for indoor installation,Unidirectional sound projector ,Waterproof distribution box,etc. Laying of cables,Mounting and connection of the call station,Measuring and testing,etc.	set	1	13,897.47	13,897.47	5/3.6
27	CLOCK SYSTEM-Material/Equipment	Single-sided IP analog slave clock,Double-sided IP analog slave clock,Fixing bracket,etc. Mounting and connection,Instalation of bracket	set	1	17,868.17	17,868.17	5/3.6
28	ACCESS CONTROL SYSTEM-Material/Equipment	Box for the accommodation,Controller 4 Wiegand with CF card, UPS,etc. Laying of cables,Assembly,Mounting and connection.	set	1	20,846.20	20,846.20	5/3.6
29	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit,The main panel,Gateway module,etc. Laying of cables,Assembly,Mounting and connection.	set	1	10,919.44	10,919.44	5/3.6
30	ENTRY OF THE CABLES owned by Telekom Srbija a.d.-Material/Equipment	Distribution cabinet,Halogen-free,Installation cable, type,etc. Assembly and mounting,Laying of cables,Designing and preparation.	set	1	992.68	992.68	5/3.6
31	DISPATCHING DEVICES-Material/Equipment	Distribution cabinet,Loud sound bell,LB phone,etc. Assembly and mounting of cabinet,Mounting and connection,Laying of cables,etc.	set	1	1,985.35	1,985.35	5/3.6
32	AUTOMATIC FIRE DETECTION-Material/Equipment	Addressable Fire Control Panel ,Relay module,Battery,etc. Assembly and mounting of the cabinet ,Installation of pipes,Laying of cables,etc.	set	1	49,633.82	49,633.82	5/3.6

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
33	EXPLOSIVE GAS DETECTION SYSTEM-Material/Equipment	Central unit,Detector,Safety barrier,etc. Installation of pipes,Laying of cables,Mounting and connection,etc.	set	1	5,956.06	5,956.06	5/3.6
34	DATA CENTER - VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Client workstation,Professional monitor,Small sundry items and other unspecified material,etc. Mounting and connection of the workstation,Mounting and connection of the monitor.	set	1	11,912.12	11,912.12	5/3.6
35	DATA CENTER - INTEGRATION OF SECURITY SYSTEMS-Material/Equipment	Workstations with two 32 " monitors for Administrator on duty. Freestanding 42U rack - enclosure	set	1	8,934.09	8,934.09	5/3.6
36	DATA CENTER - SERVER ROOM EQUIPMENT-Material/Equipment	Mounting and connection of cabinets. Fiber optic patch panel,KVM switch,Storage unit,etc.	set	1	166,769.62	166,769.62	5/3.6
37	DATA CENTER - SERVER ROOM ACTIVE EQUIPMENT-Material/Equipment	Installation and connection of active network,Small sundry items.	set	1	3,221,234.66	3,221,234.66	5/3.6
38	SUBREGIONAL STATION EQUIPMENT - COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rack dimensions,TOR DC switch. Assembly and installation of freestanding rack.	set	1	4,963.38	4,963.38	5/3.6
39	SUBREGIONAL STATION EQUIPMENT - OTN/DWDM TRANSMISSION SYSTEM-Material/Equipment	Freestanding 42U rack dimensions,OTN / DWDM device. Assembly and installation,Installation and connection.	set	1	87,355.52	87,355.52	5/3.6
40	SUBREGIONAL STATION EQUIPMENT - VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Network storage device,Client video monitoring work station,Professional monitor for video surveillance systems,etc. Mounting and connection of the workstation,Mounting and connection of the monitor,Mounting and connection of the storage.	set	1	152,872.15	152,872.15	5/3.6

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
41	SUBREGIONAL STATION EQUIPMENT - PUBLIC ADDRESS SYSTEM-Material/Equipment	Call station,Keypad for the call station,Network audio controller,etc. Mounting and connection of the call station,Mounting and connection of the network,Measuring and testing,etc.	set	1	15,882.82	15,882.82	5/3.6
42	SUBREGIONAL STATION EQUIPMENT - INTEGRATION OF SECURITY SYSTEMS-Material/Equipment	Workstations with two 32 " monitors	set	1	8,934.09	8,934.09	5/3.6
G	TELECOMMUNICATION SYSTEMS IN ALTINA STOPPING PLACE						
1	MAIN CABLE ROUTE-Work	Perforated shielded cable tray ,Halogen-free installation corrugated hose ,Installation corrugated hose,etc. Installation of cable trays ,Installation of pipes,Placing installation pipes,etc.	set	1	709.05	709.05	5/3.7
2	COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack,ASN type 2, Layer 3 switch,Managed Layer 2 switch,etc. Installation of cable trays ,Installation of pipes,Placing installation pipes,etc.	set	1	6,665.11	6,665.11	5/3.7
3	VIDEO SURVEILLANCE SYSTEM-Work	Aluminum enclosure,Mounting bracket,Pole mount adapter,etc. Mounting and connection of box camera,Mounting and connection of aluminium housing,Mounting and connection of mounting brackets,etc	set	1	5,814.25	5,814.25	5/3.7
4	PUBLIC ADDRESS SYSTEM-Work	Horn, IP 65,Waterproof distribution box ,Network audio controller,etc. Laying of cables,Mounting and connection of the call station,Measuring and testing,etc.	set	1	2,694.41	2,694.41	5/3.7
5	CLOCK SYSTEM-Work	Single-sided IP analog slave clock,Double-sided IP analog slave clock,Fixing bracket,etc. Mounting and connection,Instalation of bracket.	set	1	1,276.30	1,276.30	5/3.7

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	INFORMATION DISPLAY SYSTEM-Work	TFT information display for indoor mounting,TFT information display for outdoor mounting,Bracket for mounting. Mounting and connection,Mounting of bracket for single-sided,Mounting of bracket for double-sided,etc.	set	1	2,552.60	2,552.60	5/3.7
7	ACCESS CONTROL SYSTEM-Work	Box for the accommodation,Controller 4 Wiegand with CF card, External power,etc. Laying of cables,Assembly,Mounting and connection.	set	1	709.05	709.05	5/3.7
8	INTRUSION DETECTION SYSTEM-Work	Enclosure kit,The main panel,Gateway module,etc. Laying of cables,Assembly,Mounting and connection.	set	1	850.87	850.87	5/3.7
9	AUTOMATIC FIRE DETECTION-Work	Addressable Fire Control Panel ,Relay module,Battery,etc. Assembly and mounting of the cabinet ,Installation of pipes,Laying of cables,etc.	set	1	1,134.49	1,134.49	5/3.7
10	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT-Work	Subsystem central unit,Conventional optical smoke detector,Manual call point,ect. Installation of pipes,Laying of cables,Mounting and connection,ect.	set	1	1,701.73	1,701.73	5/3.7
11	MAIN CABLE ROUTE-Material/Equipment	Perforated shielded cable tray ,Halogen-free installation corrugated hose ,Installation corrugated hose,etc. Installation of cable trays ,Installation of pipes,Placing installation pipes,etc.	set	1	4,963.38	4,963.38	5/3.7
12	COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rack,ASN type 2, Layer 3 switch,Managed Layer 2 switch,etc. Installation of cable trays ,Installation of pipes,Placing installation pipes,etc.	set	1	46,655.79	46,655.79	5/3.7

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Aluminum enclosure,Mounting bracket,Pole mount adapter,etc. Mounting and connection of box camera,Mounting and connection of aluminium housing,Mounting and connection of mounting brackets,etc	set	1	40,699.73	40,699.73	5/3.7
14	PUBLIC ADDRESS SYSTEM-Material/Equipment	Horn, IP 65,Waterproof distribution box ,Network audio controller,etc. Laying of cables,Mounting and connection of the call station,Measuring and testing,etc.	set	1	18,860.85	18,860.85	5/3.7
15	CLOCK SYSTEM-Material/Equipment	Single-sided IP analog slave clock,Double-sided IP analog slave clock,Fixing bracket,etc. Mounting and connection,Instalation of bracket.	set	1	8,934.09	8,934.09	5/3.7
16	INFORMATION DISPLAY SYSTEM-Material/Equipment	TFT information display for indoor mounting,TFT information display for outdoor mounting,Bracket for mounting. Mounting and connection,Mounting of bracket for single-sided,Mounting of bracket for double-sided,etc.	set	1	17,868.17	17,868.17	5/3.7
17	ACCESS CONTROL SYSTEM-Material/Equipment	Box for the accommodation,Controller 4 Wiegand with CF card, External power,etc. Laying of cables,Assembly,Mounting and connection.	set	1	4,963.38	4,963.38	5/3.7
18	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit,The main panel,Gateway module,etc. Laying of cables,Assembly,Mounting and connection.	set	1	5,956.06	5,956.06	5/3.7
19	AUTOMATIC FIRE DETECTION-Material/Equipment	Addressable Fire Control Panel ,Relay module,Battery,etc. Assembly and mounting of the cabinet ,Installation of pipes,Laying of cables,etc.	set	1	7,941.41	7,941.41	5/3.7
20	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT-Material/Equipment	Subsystem central unit,Conventional optical smoke detector,Manual call point,ect. Installation of pipes,Laying of cables,Mounting and connection,ect.	set	1	11,912.12	11,912.12	5/3.7
H	TELECOMMUNICATION SYSTEMS IN ZEMUNSKO POLJE RAILWAY STATION						

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	DISMANTLING OF THE EXISTING SYSTEMS-Work	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	141.81	141.81	5/3.8
2	MAIN CABLE ROUTE-Work	Pipe,Fittings for branching,Sand,etc. Marking the route and facilities/buildings,Excavation of trench,Laying of PE pipes,etc.	set	1	1,701.73	1,701.73	5/3.8
3	COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack,ASN type 2, Layer 3 switch,Managed Layer 2 switch,etc. Assembly and installation of freestanding;Material, manufacturing, construction,Laying of fiber optic cables,etc.	set	1	12,621.17	12,621.17	5/3.8
4	VIDEO SURVEILLANCE SYSTEM-Work	Aluminum enclosure,Mounting bracket,Pole mount adapter,etc. Mounting and connection of box camera,Mounting and connection of aluminium housing,Mounting and connection of mounting brackets,etc.	set	1	9,501.33	9,501.33	5/3.8
5	CLOCK SYSTEM-Work	Single-sided IP analog slave clock,Double-sided IP analog slave clock,Fixing bracket,etc. Mounting and connection,Instalation of bracket.	set	1	5,105.19	5,105.19	5/3.8
6	INFORMATION DISPLAY SYSTEM-Work	TFT information display for indoor mounting,TFT information display for outdoor mounting,Bracket for mounting. Mounting and connection,Mounting of bracket for single-sided,Mounting of bracket for double-sided,etc.	set	1	6,665.11	6,665.11	5/3.8
7	PUBLIC ADDRESS SYSTEM-Work	Call station with speaker and microphone,Keypad for the call station ,Ceiling speaker for indoor installation,etc. Laying of cables,Mounting and connection of the call station,Measuring and testing,etc.	set	1	4,396.14	4,396.14	5/3.8

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	SOS SYSTEM-Work	The central panel;A call-quit combination device;SOS pushbutton, etc. Laying of cables;Assembly, mounting and connecting, etc.	set	1	141.81	141.81	5/3.8
9	ACCESS CONTROL SYSTEM-Work	Box for the accommodation,Controller 4 Wiegand with CF card, UPS,etc. Laying of cables,Assembly,Mounting and connection.	set	1	992.68	992.68	5/3.8
10	INTRUSION DETECTION SYSTEM-Work	Enclosure kit,The main panel,Gateway module,etc. Laying of cables,Assembly,Mounting and connection.	set	1	1,134.49	1,134.49	5/3.8
11	ENTRY OF THE CABLES owned by Telekom Srbija a.d.-Work	Distribution cabinet,Halogen-free corrugated installation hose ,Installation cable, type,etc. Assembly and mounting,Laying of cables,Installation of pipes,etc.	set	1	141.81	141.81	5/3.8
12	DISPATCHING DEVICES-Work	Distribution cabinet,Loud sound bell,LB phone,etc. Assembly and mounting of cabinet,Mounting and connection,Laying of cables,etc.	set	1	283.62	283.62	5/3.8
13	AUTOMATIC FIRE DETECTION AFD-Work	Addressable Fire Control Panel ,Relay module,Battery,etc. Assembly and mounting of the cabinet ,Installation of pipes,Laying of cables,etc.	set	1	2,552.60	2,552.60	5/3.8
14	DISMANTLING OF THE EXISTING SYSTEMS-Material/Equipment	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	992.68	992.68	5/3.8
15	MAIN CABLE ROUTE-Material/Equipment	Pipe,Fittings for branching,Sand,etc. Marking the route and facilities/buildings,Excavation of trench,Laying of PE pipes,etc.	set	1	11,912.12	11,912.12	5/3.8

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
16	COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rack,ASN type 2, Layer 3 switch,Managed Layer 2 switch,etc. Assembly and installation of freestanding;Material, manufacturing, construction,Laying of fiber optic cables,etc.	set	1	88,348.19	88,348.19	5/3.8
17	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Aluminum enclosure,Mounting bracket,Pole mount adapter,etc. Mounting and connection of box camera,Mounting and connection of aluminium housing,Mounting and connection of mounting brackets,etc.	set	1	66,509.31	66,509.31	5/3.8
18	CLOCK SYSTEM-Material/Equipment	Single-sided IP analog slave clock,Double-sided IP analog slave clock,Fixing bracket,etc. Mounting and connection,Instalation of bracket.	set	1	35,736.35	35,736.35	5/3.8
19	INFORMATION DISPLAY SYSTEM-Material/Equipment	TFT information display for indoor mounting,TFT information display for outdoor mounting,Bracket for mounting. Mounting and connection,Mounting of bracket for single-sided,Mounting of bracket for double-sided,etc.	set	1	46,655.79	46,655.79	5/3.8
20	PUBLIC ADDRESS SYSTEM-Material/Equipment	Call station with speaker and microphone,Keypad for the call station ,Ceiling speaker for indoor installation,etc. Laying of cables,Mounting and connection of the call station,Measuring and testing,etc.	set	1	30,772.97	30,772.97	5/3.8
21	SOS SYSTEM-Material/Equipment	The central panel;A call-quit combination device;SOS pushbutton, etc. Laying of cables;Assembly, mounting and connecting, etc.	set	1	992.68	992.68	5/3.8
22	ACCESS CONTROL SYSTEM-Material/Equipment	Box for the accommodation,Controller 4 Wiegand with CF card, UPS,etc. Laying of cables,Assembly,Mounting and connection.	set	1	6,948.73	6,948.73	5/3.8

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
23	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit, The main panel, Gateway module, etc. Laying of cables, Assembly, Mounting and connection.	set	1	7,941.41	7,941.41	5/3.8
24	ENTRY OF THE CABLES owned by Telekom Srbija a.d.-Material/Equipment	Distribution cabinet, Halogen-free corrugated installation hose , Installation cable, type, etc. Assembly and mounting, Laying of cables, Installation of pipes, etc.	set	1	992.68	992.68	5/3.8
25	DISPATCHING DEVICES-Material/Equipment	Distribution cabinet, Loud sound bell, LB phone, etc. Assembly and mounting of cabinet, Mounting and connection, Laying of cables, etc.	set	1	1,985.35	1,985.35	5/3.8
26	AUTOMATIC FIRE DETECTION AFD-Material/Equipment	Addressable Fire Control Panel , Relay module, Battery, etc. Assembly and mounting of the cabinet , Installation of pipes, Laying of cables, etc.	set	1	17,868.17	17,868.17	5/3.8
I	TELECOMMUNICATION SYSTEMS IN KAMENDIN STOPPING PLACE						
1	MAIN CABLE ROUTE-Work	Perforated shielded cable; Halogen-free installation corrugated hose, etc. Marking the route and facilities/buildings; Excavation of trench; Laying of PE pipes, etc.	set	1	709.05	709.05	5/3.9
2	COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack; ASN type 2, Layer 3 switch; Managed Layer 2 switch, etc. Assembly and installation of freestanding; Material, manufacturing, construction; Laying of fiber optic cables, etc.	set	1	6,665.11	6,665.11	5/3.9
3	VIDEO SURVEILLANCE SYSTEM-Work	IP Box ONVIF Day / Night full HD 1080p camera; Aluminum enclosure; Mounting bracket, etc. Mounting and connection.	set	1	5,247.00	5,247.00	5/3.9
4	PUBLIC ADDRESS SYSTEM-Work	Horn; Waterproof distribution box; Distribution box, etc. Laying of cables; Mounting and connection, etc.	set	1	2,410.79	2,410.79	5/3.9

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CLOCK SYSTEM-Work	Single-sided IP analog slave clock;Double-sided IP analog slave clock;Fixing bracket,etc. Mounting and connection.	set	1	1,276.30	1,276.30	5/3.9
6	INFORMATION DISPLAY SYSTEM-Work	TFT information display;Bracket,,etc. Mounting and connection.	set	1	2,552.60	2,552.60	5/3.9
7	ACCESS CONTROL SYSTEM-Work	Controller 4 Wiegand with CF card;Box;External power,etc. Laying of cables;Assembly, installation and connection;Mounting,etc.	set	1	709.05	709.05	5/3.9
8	INTRUSION DETECTION SYSTEM-Work	Enclosure kit;The main panel;Gateway module,etc. Assembly, mounting and connection;Measuring and testing,etc.	set	1	850.87	850.87	5/3.9
9	AUTOMATIC FIRE DETECTION-Work	Addressable Fire Control Panel;Relay module;Battery,etc. Assembly and mounting;Installation;Laying of cables,etc.	set	1	1,134.49	1,134.49	5/3.9
10	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT-Work	Subsystem central unit;Subsystem central unit;Conventional optical smoke detector,etc. Installation pipes;Laying of cables;Mounting and connection,etc.	set	1	1,701.73	1,701.73	5/3.9
11	MAIN CABLE ROUTE-Material/Equipment	Perforated shielded cable;Halogen-free installation corrugated hose,etc. Marking the route and facilities/buildings;Excavation of trench;Laying of PE pipes,etc.	set	1	4,963.38	4,963.38	5/3.9
12	COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rack;ASN type 2, Layer 3 switch;Managed Layer 2 switch,etc. Assembly and installation of freestanding;Material, manufacturing, construction;Laying of fiber optic cables,etc.	set	1	46,655.79	46,655.79	5/3.9
13	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	IP Box ONVIF Day / Night full HD 1080p camera;Aluminum enclosure;Mounting bracket,etc. Mounting and connection.	set	1	36,729.02	36,729.02	5/3.9

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
14	PUBLIC ADDRESS SYSTEM-Material/Equipment	Horn;Waterproof distribution box;Distribution box,etc. Laying of cables;Mounting and connection,etc.	set	1	16,875.50	16,875.50	5/3.9
15	CLOCK SYSTEM-Material/Equipment	Single-sided IP analog slave clock;Double-sided IP analog slave clock;Fixing bracket,etc. Mounting and connection.	set	1	8,934.09	8,934.09	5/3.9
16	INFORMATION DISPLAY SYSTEM-Material/Equipment	TFT information display;Bracket,,etc. Mounting and connection.	set	1	17,868.17	17,868.17	5/3.9
17	ACCESS CONTROL SYSTEM-Material/Equipment	Controller 4 Wiegand with CF card;Box;External power,etc. Laying of cables;Assembly, installation and connection;Mounting,etc.	set	1	4,963.38	4,963.38	5/3.9
18	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit;The main panel;Gateway module,etc. Assembly, mounting and connection;Measuring and testing,etc.	set	1	5,956.06	5,956.06	5/3.9
19	AUTOMATIC FIRE DETECTION-Material/Equipment	Addressable Fire Control Panel;Relay module;Battery,etc. Assembly and mounting;Installation;Laying of cables,etc.	set	1	7,941.41	7,941.41	5/3.9
20	FIXED FIRE ALARM SYSTEM WITH FIRE EXSTINGUISHING MANAGEMENT-Material/Equipment	Subsystem central unit;Subsystem central unit;Conventional optical smoke detector,etc. Installation pipes;Laying of cables;Mounting and connection,etc.	set	1	11,912.12	11,912.12	5/3.9
J	TELECOMMUNICATION SYSTEMS IN BATAJNICA RAILWAY STATION						
1	DISMANTLING OF THE EXISTING SYSTEMS-Work	Dismantling parts of existing telecommunication systems ; Dismantling and reassembly of parts of existing telecommunication systems	set	1	141.81	141.81	5/3.10
2	MAIN CABLE ROUTE-Work	Pipe;Fittings for branching;Sand,etc. Marking the route and facilities/buildings;Excavation of trench;Laying of PE pipes,etc.	set	1	2,836.22	2,836.22	5/3.10

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rackELSN - Router;Managed Layer 2 switch,etc. Assembly and installation of freestanding;Material, manufacturing, construction;Laying of fiber optic cables,etc.	set	1	21,271.64	21,271.64	5/3.10
4	VIDEO SURVEILLANCE SYSTEM-Work	IP Box ONVIF Day / Night full HD 1080p camera;Aluminum enclosure,etc. Mounting and connection,etc.	set	1	14,464.71	14,464.71	5/3.10
5	CLOCK SYSTEM-Work	Single-sided IP analog slave clock;Single-sided IP analog slave clock;Fixing bracket,etc. Mounting and connection.	set	1	4,679.76	4,679.76	5/3.10
6	INFORMATION DISPLAY SYSTEM-Work	TFT information display;Bracket,etc. Mounting and connection.	set	1	9,643.14	9,643.14	5/3.10
7	PUBLIC ADDRESS SYSTEM-Work	Call station;Keypad for the call station;Ceiling speaker,etc. Laying of cables;Mounting and connection;Measuring and testing.	set	1	4,963.38	4,963.38	5/3.10
8	SOS SYSTEM-Work	The central panel;A call-quit combination device;SOS pushbutton, etc. Laying of cables;Assembly, mounting and connecting, etc.	set	1	141.81	141.81	5/3.10
9	ACCESS CONTROL SYSTEM-Work	Box;Controller 4 Wiegand with CF card;External power supply,etc. Laying of cables;Mounting and connection;Measuring and testing.	set	1	1,985.35	1,985.35	5/3.10
10	INTRUSION DETECTION SYSTEM-Work	Enclosure kit;The main panel;Gateway module,etc. Laying of cables;Assembly, mounting and connection ;Measuring and testing.	set	1	2,268.97	2,268.97	5/3.10

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
11	ENTRY OF THE CABLES owned by Telekom Srbija a.d. -Work	Distribution cabinet;disconnection module;connection module, etc. Assembly and mounting;Laying of cables;Measuring and testing, etc.	set	1	141.81	141.81	5/3.10
12	DISPATCHING DEVICES-Work	Distribution cabinet;disconnection module;connection module. Assembly and mounting;Laying of cables;Measuring and testing.	set	1	283.62	283.62	5/3.10
13	SUBREGIONAL STATION EQUIPMENT - COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack;patch cords;TOR DC switch, etc. Assembly and installation;Installation and connection.	set	1	709.05	709.05	5/3.10
14	SUBREGIONAL STATION EQUIPMENT - OTN/DWDM TRANSMISSION SYSTEM-Work	Freestanding 42U rack;patch cords;TOR DC switch, etc. Assembly and installation.	set	1	12,337.55	12,337.55	5/3.10
15	SUBREGIONAL STATION EQUIPMENT - VIDEO SURVEILLANCE SYSTEM-Work	Network storage device;Network storage device, etc. Mounting and connection.	set	1	9,359.52	9,359.52	5/3.10
16	SUBREGIONAL STATION EQUIPMENT - PUBLIC ADDRESS SYSTEM-Work	Call station;Keypad for the call station;Ceiling speaker,etc. Mounting and connection;Measuring and testing.	set	1	2,268.97	2,268.97	5/3.10
17	SUBREGIONAL STATION EQUIPMENT -INTEGRATION OF SECURITY SYSTEMS-Work	Workstations with two 32 " monitors	set	1	1,276.30	1,276.30	5/3.10
18	AUTOMATIC FIRE DETECTION-Work	Addressable Fire Control Panel;Relay module;Battery,etc. Assembly and mounting;Installation;Laying of cables,etc.	set	1	19,144.47	19,144.47	5/3.10
19	FIXED FIRE ALARM SYSTEM WITH FIRE EXTINGUISHING MANAGEMENT-Work	Subsystem central unit;Subsystem central unit;Conventional optical smoke detector,etc. Installation pipes;Laying of cables;Mounting and connection,etc.	set	1	7,374.17	7,374.17	5/3.10
20	DISMANTLING OF THE EXISTING SYSTEMS-Material/Equipment	Dismantling parts of existing telecommunication systems ; Dismantling and reassembly of parts of existing telecommunication systems	set	1	992.68	992.68	5/3.10

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
21	MAIN CABLE ROUTE-Material/Equipment	Pipe;Fittings for branching;Sand,etc. Marking the route and facilities/buildings;Excavation of trench;Laying of PE pipes,etc.	set	1	19,853.53	19,853.53	5/3.10
22	COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rackELSN - Router;Managed Layer 2 switch,etc. Assembly and installation of freestanding;Material, manufacturing, construction;Laying of fiber optic cables,etc.	set	1	148,901.45	148,901.45	5/3.10
23	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	IP Box ONVIF Day / Night full HD 1080p camera;Aluminum enclosure,etc. Mounting and connection,etc.	set	1	101,252.98	101,252.98	5/3.10
24	CLOCK SYSTEM-Material/Equipment	Single-sided IP analog slave clock;Single-sided IP analog slave clock;Fixing bracket,etc. Mounting and connection.	set	1	32,758.32	32,758.32	5/3.10
25	INFORMATION DISPLAY SYSTEM-Material/Equipment	TFT information display;Bracket,etc. Mounting and connection.	set	1	67,501.99	67,501.99	5/3.10
26	PUBLIC ADDRESS SYSTEM-Material/Equipment	Call station;Keypad for the call station;Ceiling speaker,etc. Laying of cables;Mounting and connection;Measuring and testing.	set	1	34,743.67	34,743.67	5/3.10
27	SOS SYSTEM-Material/Equipment	The central panel;A call-quit combination device;SOS pushbutton, etc. Laying of cables;Assembly, mounting and connecting, etc.	set	1	992.68	992.68	5/3.10
28	ACCESS CONTROL SYSTEM-Material/Equipment	Box;Controller 4 Wiegand with CF card;External power supply,etc. Laying of cables;Mounting and connection;Measuring and testing.	set	1	13,897.47	13,897.47	5/3.10
29	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit;The main panel;Gateway module,etc. Laying of cables;Assembly, mounting and connection ;Measuring and testing.	set	1	15,882.82	15,882.82	5/3.10

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
30	ENTRY OF THE CABLES owned by Telekom Srbija a.d. - Material/Equipment	Distribution cabinet;disconnection module;connection module, etc. Assembly and mounting;Laying of cables;Measuring and testing, etc.	set	1	992.68	992.68	5/3.10
31	DISPATCHING DEVICES- Material/Equipment	Distribution cabinet;disconnection module;connection module. Assembly and mounting;Laying of cables;Measuring and testing.	set	1	1,985.35	1,985.35	5/3.10
32	SUBREGIONAL STATION EQUIPMENT - COMMON COMMUNICATION NETWORK- Material/Equipment	Freestanding 42U rack;patch cords;TOR DC switch, etc. Assembly and installation;Installation and connection.	set	1	4,963.38	4,963.38	5/3.10
33	SUBREGIONAL STATION EQUIPMENT - OTN/DWDM TRANSMISSION SYSTEM- Material/Equipment	Freestanding 42U rack;patch cords;TOR DC switch, etc. Assembly and installation.	set	1	86,362.84	86,362.84	5/3.10
34	SUBREGIONAL STATION EQUIPMENT - VIDEO SURVEILLANCE SYSTEM- Material/Equipment	Network storage device;Network storage device, etc. Mounting and connection.	set	1	65,516.64	65,516.64	5/3.10
35	SUBREGIONAL STATION EQUIPMENT - PUBLIC ADDRESS SYSTEM- Material/Equipment	Call station;Keypad for the call station;Ceiling speaker,etc. Mounting and connection;Measuring and testing.	set	1	15,882.82	15,882.82	5/3.10
36	SUBREGIONAL STATION EQUIPMENT -INTEGRATION OF SECURITY SYSTEMS- Material/Equipment	Workstations with two 32 " monitors	set	1	8,934.09	8,934.09	5/3.10

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
37	AUTOMATIC FIRE DETECTION-Material/Equipment	Addressable Fire Control Panel;Relay module;Battery,etc. Assembly and mounting;Installation;Laying of cables,etc.	set	1	134,011.30	134,011.30	5/3.10
38	FIXED FIRE ALARM SYSTEM WITH FIRE EXTINGUISHING MANAGEMENT-Material/Equipment	Subsystem central unit;Subsystem central unit;Conventional optical smoke detector,etc. Installation pipes;Laying of cables;Mounting and connection,etc.	set	1	51,619.17	51,619.17	5/3.10
K	TELECOMMUNICATION SYSTEMS IN NOVA PAZOVA RAILWAY STATION						
1	DISMANTLING OF THE EXISTING SYSTEMS-Work	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	141.81	141.81	5/3.11
2	MAIN CABLE ROUTE-Work	Pipe,Fittings for branching,Sand,etc. Marking the route and facilities/buildings,Excavation of trench,Laying of PE pipes,etc.	set	1	1,985.35	1,985.35	5/3.11
3	COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack,ASN type 2, Layer 3 switch,Managed Layer 2 switch,etc. Assembly and installation of freestanding;Material, manufacturing, construction,Laying of fiber optic cables,etc.	set	1	11,628.49	11,628.49	5/3.11
4	VIDEO SURVEILLANCE SYSTEM-Work	Aluminum enclosure,Mounting bracket,Pole mount adapter,etc. Mounting and connection of box camera,Mounting and connection of aluminium housing,Mounting and connection of mounting brackets,etc.	set	1	7,232.36	7,232.36	5/3.11
5	PUBLIC ADDRESS SYSTEM-Work	Call station with speaker and microphone,Keypad for the call station ,Ceiling speaker for indoor installation,etc. Laying of cables,Mounting and connection of the call station,Measuring and testing,etc.	set	1	6,239.68	6,239.68	5/3.11

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
6	CLOCK SYSTEM-Work	Single-sided IP analog slave clock,Double-sided IP analog slave clock,Fixing bracket,etc. Mounting and connection,Instalation of bracket.	set	1	6,665.11	6,665.11	5/3.11
7	INFORMATION DISPLAY SYSTEM-Work	TFT information display for indoor mounting,TFT information display for outdoor mounting,Bracket for mounting. Mounting and connection,Mounting of bracket for single-sided,Mounting of bracket for double-sided,etc.	set	1	5,105.19	5,105.19	5/3.11
8	SOS SYSTEM -Work	The central panel;Alarm system:A call-quit combination device Room signal light,s,etc. Mounting and connecting,Laying of cables,etc.	set	1	283.62	283.62	5/3.11
9	ACCESS CONTROL SYSTEM-Work	Box for the accommodation,Controller 4 Wiegand with CF card, UPS,etc. Laying of cables,Assembly,Mounting and connection.	set	1	1,418.11	1,418.11	5/3.11
10	INTRUSION DETECTION SYSTEM-Work	Enclosure kit,The main panel,Gateway module,etc. Laying of cables,Assembly,Mounting and connection.	set	1	1,134.49	1,134.49	5/3.11
11	ENTRY OF THE CABLES owned by Telekom Srbija a.d. -Work	Distribution cabinet,Halogen-free corrugated installation hose ,Installation cable, type,etc. Assembly and mounting,Laying of cables,Installation of pipes,etc.	set	1	141.81	141.81	5/3.11
12	DISPATCHING DEVICES-Work	Distribution cabinet,Loud sound bell,LB phone,etc. Assembly and mounting of cabinet,Mounting and connection,Laying of cables,etc.	set	1	283.62	283.62	5/3.11
13	AUTOMATIC FIRE DETECTION - Work	Addressable Fire Control Panel;Relay module;Battery,etc. Assembly and mounting of the cabinet ,Installation of pipes,Laying of cables,etc.	set	1	3,545.27	3,545.27	5/3.11

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
14	EXPLOSIVE GAS DETECTION SYSTEM-Work	Central unit of the gas detection system;Alarm system: incorporated 85dB signal buzzer Display elements,etc. Installation of pipes,Laying of cables,etc.	set	1	1,418.11	1,418.11	5/3.11
15	DISMANTLING OF THE EXISTING SYSTEMS-Material/Equipment	Dismantling parts of existing telecommunication systems,Dismantling and reassembly of parts of existing telecommunication systems	set	1	992.68	992.68	5/3.11
16	MAIN CABLE ROUTE-Material/Equipment	Pipe,Fittings for branching,Sand,etc. Marking the route and facilities/buildings,Excavation of trench,Laying of PE pipes,etc.	set	1	13,897.47	13,897.47	5/3.11
17	COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rack,ASN type 2, Layer 3 switch,Managed Layer 2 switch,etc. Assembly and installation of freestanding;Material, manufacturing, construction,Laying of fiber optic cables,etc.	set	1	81,399.46	81,399.46	5/3.11
18	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Aluminum enclosure,Mounting bracket,Pole mount adapter,etc. Mounting and connection of box camera,Mounting and connection of aluminium housing,Mounting and connection of mounting brackets,etc.	set	1	50,626.49	50,626.49	5/3.11
19	PUBLIC ADDRESS SYSTEM-Material/Equipment	Call station with speaker and microphone,Keypad for the call station ,Ceiling speaker for indoor installation,etc. Laying of cables,Mounting and connection of the call station,Measuring and testing,etc.	set	1	43,677.76	43,677.76	5/3.11
20	CLOCK SYSTEM-Material/Equipment	Single-sided IP analog slave clock,Double-sided IP analog slave clock,Fixing bracket,etc. Mounting and connection,Instalation of bracket.	set	1	46,655.79	46,655.79	5/3.11

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
21	INFORMATION DISPLAY SYSTEM-Material/Equipment	TFT information display for indoor mounting,TFT information display for outdoor mounting,Bracket for mounting. Mounting and connection,Mounting of bracket for single-sided,Mounting of bracket for double-sided,etc.	set	1	35,736.35	35,736.35	5/3.11
22	SOS SYSTEM -Material/Equipment	The central panel;Alarm system:A call-quit combination device Room signal light,s,etc. Mounting and connecting,Laying of cables,etc.	set	1	1,985.35	1,985.35	5/3.11
23	ACCESS CONTROL SYSTEM-Material/Equipment	Box for the accommodation,Controller 4 Wiegand with CF card, UPS,etc. Laying of cables,Assembly,Mounting and connection.	set	1	9,926.76	9,926.76	5/3.11
24	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit,The main panel,Gateway module,etc. Laying of cables,Assembly,Mounting and connection.	set	1	7,941.41	7,941.41	5/3.11
25	ENTRY OF THE CABLES owned by Telekom Srbija a.d. - Material/Equipment	Distribution cabinet,Halogen-free corrugated installation hose ,Installation cable, type,etc. Assembly and mounting,Laying of cables,Installation of pipes,etc.	set	1	992.68	992.68	5/3.11
26	DISPATCHING DEVICES-Material/Equipment	Distribution cabinet,Loud sound bell,LB phone,etc. Assembly and mounting of cabinet,Mounting and connection,Laying of cables,etc.	set	1	1,985.35	1,985.35	5/3.11
27	AUTOMATIC FIRE DETECTION - Material/Equipment	Addressable Fire Control Panel;Relay module;Battery,etc. Assembly and mounting of the cabinet ,Installation of pipes,Laying of cables,etc.	set	1	24,816.91	24,816.91	5/3.11
28	EXPLOSIVE GAS DETECTION SYSTEM-Material/Equipment	Central unit of the gas detection system;Alarm system: incorporated 85dB signal buzzer Display elements,etc. Installation of pipes,Laying of cables,etc.	set	1	9,926.76	9,926.76	5/3.11
L	TELECOMMUNICATION SYSTEMS IN STARA PAZOVA RAILWAY STATION						

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
1	DISMANTLING OF THE EXISTING SYSTEMS-Work	Dismantling of parts of the existing telecommunications. Disassembly and reassembly of parts of the existing telecommunications systems which.	set	1	141.81	141.81	5/3.12
2	MAIN CABLE ROUTES-Work	Perforated shielded cable tray made of steel sheet. Halogen-free installation corrugated hose with. Supply and delivery of firestop compound. Installation of cable trays. Installation pipes. All the works on closing the penetrations of the systems and facilities with firestop compound.	set	1	3,545.27	3,545.27	5/3.12
3	COMMON COMMUNICATION NETWORK-Work	Freestanding 42U rack. patch cords. Fiber optic patch panel (drawer) . Assembly and installation of freestanding 19" rack 42U. Assembly and installation of PO-TK cabinet. Assembly and installation of wall mounting 19" rack.	set	1	15,457.39	15,457.39	5/3.12
4	VIDEO SURVEILLANCE SYSTEM-Work	Aluminum enclosure for outdoor mounting for Day / Night IP cameras. Mounting bracket. Pole mount adapter for mounting brackets. Mounting and connection of box camera. Mounting and connection of aluminium housing. Mounting and connection of the workstation.	set	1	9,926.76	9,926.76	5/3.12

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
5	CLOCK SYSTEM-Work	Single-sided IP analog slave clock. Double-sided IP analog slave clock. Fixing bracket. Mounting and connection of the indoor mounted single-sided analog slave clock. Mounting and connection of the outdoor mounted double-sided analog slave clock . Instalation of bracket for single-sided or double-sided clock, diameter.	set	1	3,119.84	3,119.84	5/3.12
6	INFORMATION DISPLAY SYSTEM-Work	TFT information display. Bracket. Small sundry items and other unspecified material and works. Mounting and connection of the single-sided indoor mounting information display. Mounting and connection of the single-sided outdoor mounting information display. Mounting of bracket for single-sided information display.	set	1	5,956.06	5,956.06	5/3.12
7	PUBLIC ADDRESS SYSTEM-Work	Call station with speaker and microphone on a flexible neck. Keypad for the call station with a minimum of 5 programmable keys, light indication. Unidirectional sound projector. Laying cables. Mounting and connection of the call station and keypads. Mounting and connection of unidirectional sound projector.	set	1	5,814.25	5,814.25	5/3.12

11 Telecommunication

No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	SOS SYSTEM-Work	The central panel with the following functions. A call-quit combination device. Room signal light. Laying cables. Assembly, mounting and connecting the central pane. Mounting and connecting of call-quit combination device.	set	1	141.81	141.81	5/3.12
9	ACCESS CONTROL SYSTEM-Work	Controller 4 Wiegand with CF card. External power supply with incorporated UPS. Battery for additional power supply. Laying cables. Assembly, installation and connection. Mounting and connection of the reader.	set	1	1,843.54	1,843.54	5/3.12
10	INTRUSION DETECTION SYSTEM-Work	Enclosure kit. The main panel. Gateway module. Laying cables. Assembly, mounting and connection. Mounting and connection of the motion detector.	set	1	1,559.92	1,559.92	5/3.12
11	ENTRY OF THE CABLES owned by Telekom Srbija a.d. -Work	tribution cabinet for flushed wall mounting made. Halogen-free corrugated installation hose. Small sundry items and other unspecified material and works. Assembly and mounting of cabinet. Laying cables. Designing and preparation of documentation.	set	1	141.81	141.81	5/3.12
12	DISPATCHING DEVICES -Work	Distribution cabinet. disconnection module. connection module. Assembly and mounting of cabinet. Mounting ang connection of LB phone. Laying cables.	set	1	283.62	283.62	5/3.12

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
13	AUTOMATIC FIRE DETECTION-Work	Addressable Fire Control Panel. Relay module. Battery. Laying cables. Mounting and connection of addressable fire alarm control panel. Mounting and connection of the battery.	set	1	16,450.06	16,450.06	5/3.12
14	DISMANTLING OF THE EXISTING SYSTEMS-Material/Equipment	Dismantling of parts of the existing telecommunications. Disassembly and reassembly of parts of the existing telecommunications systems which.	set	1	992.68	992.68	5/3.12
15	MAIN CABLE ROUTES-Material/Equipment	Perforated shielded cable tray made of steel sheet. Halogen-free installation corrugated hose with. Supply and delivery of firestop compound. Installation of cable trays. Installation pipes. All the works on closing the penetrations of the systems and facilities with firestop compound.	set	1	24,816.91	24,816.91	5/3.12
16	COMMON COMMUNICATION NETWORK-Material/Equipment	Freestanding 42U rack. patch cords. Fiber optic patch panel (drawer) . Assembly and installation of freestanding 19" rack 42U. Assembly and installation of PO-TK cabinet. Assembly and installation of wall mounting 19" rack.	set	1	108,201.72	108,201.72	5/3.12
17	VIDEO SURVEILLANCE SYSTEM-Material/Equipment	Aluminum enclosure for outdoor mounting for Day / Night IP cameras. Mounting bracket. Pole mount adapter for mounting brackets. Mounting and connection of box camera. Mounting and connection of aluminium housing. Mounting and connection of the workstation.	set	1	69,487.34	69,487.34	5/3.12

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
18	CLOCK SYSTEM-Material/Equipment	Single-sided IP analog slave clock. Double-sided IP analog slave clock. Fixing bracket. Mounting and connection of the indoor mounted single-sided analog slave clock. Mounting and connection of the outdoor mounted double-sided analog slave clock . Instalation of bracket for single-sided or double-sided clock, diameter.	set	1	21,838.88	21,838.88	5/3.12
19	INFORMATION DISPLAY SYSTEM-Material/Equipment	TFT information display. Bracket. Small sundry items and other unspecified material and works. Mounting and connection of the single-sided indoor mounting information display. Mounting and connection of the single-sided outdoor mounting information display. Mounting of bracket for single-sided information display.	set	1	41,692.41	41,692.41	5/3.12
20	PUBLIC ADDRESS SYSTEM-Material/Equipment	Call station with speaker and microphone on a flexible neck. Keypad for the call station with a minimum of 5 programmable keys, light indication. Unidirectional sound projector. Laying cables. Mounting and connection of the call station and keypads. Mounting and connection of unidirectional sound projector.	set	1	40,699.73	40,699.73	5/3.12

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
21	SOS SYSTEM-Material/Equipment	The central panel with the following functions. A call-quit combination device. Room signal light. Laying cables. Assembly, mounting and connecting the central pane. Mounting and connecting of call-quit combination device.	set	1	992.68	992.68	5/3.12
22	ACCESS CONTROL SYSTEM-Material/Equipment	Controller 4 Wiegand with CF card. External power supply with incorporated UPS. Battery for additional power supply. Laying cables. Assembly, installation and connection. Mounting and connection of the reader.	set	1	12,904.79	12,904.79	5/3.12
23	INTRUSION DETECTION SYSTEM-Material/Equipment	Enclosure kit. The main panel. Gateway module. Laying cables. Assembly, mounting and connection. Mounting and connection of the motion detector.	set	1	10,919.44	10,919.44	5/3.12
24	ENTRY OF THE CABLES owned by Telekom Srbija a.d. - Material/Equipment	tribution cabinet for flushed wall mounting made. Halogen-free corrugated installation hose. Small sundry items and other unspecified material and works. Assembly and mounting of cabinet. Laying cables. Designing and preparation of documentation.	set	1	992.68	992.68	5/3.12

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
25	DISPATCHING DEVICES - Material/Equipment	Distribution cabinet. disconnection module. connection module. Assembly and mounting of cabinet. Mounting ang connection of LB phone. Laying cables.	set	1	1,985.35	1,985.35	5/3.12
26	AUTOMATIC FIRE DETECTION- Material/Equipment	Addressable Fire Control Panel. Relay module. Battery. Laying cables. Mounting and connection of addressable fire alarm control panel. Mounting and connection of the battery.	set	1	115,150.45	115,150.45	5/3.12
M	INSTALLATION OF GSM-R SYSTEM ON THE RAILWAY LINE						
M-1	TELECOMMUNICATIONS						
1	Belgrade Centar (Prokop)- centar of the GMS-R system-Material	GSM-R CORE,	set	1	20,450,056.27	20,450,056.27	5/3.13
2	Belgrade Centar (Prokop) - centar of the GMS-R system-Works	GSM-R CORE	set	1	144,817.29	144,817.29	5/3.13
3	Handheld GPH OPH,SIM card - Material	Handheld GPH OPH,SIM card	set	1	183,389.86	183,389.86	5/3.13
4	Handheld GPH OPH, SIM card - Works	Handheld GPH OPH,SIM card	set	1	31,421.83	31,421.83	5/3.13
5	Cab Radio Material	Cab Radio	set	1	226,897.44	226,897.44	5/3.13
6	Cab Radio Works	Cab Radio	set	1	25,708.77	25,708.77	5/3.13
7	Batajnica - temporary geo-redundant GSM-R centar-Material	GSM-R backup CORE in Batajnica	set	1	12,142,206.33	12,142,206.33	5/3.13
8	Batajnica - temporary geo-redundant GSM-R centar-Works	GSM-R backup CORE in Batajnica	set	1	89,737.94	89,737.94	5/3.13

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
9	Works referring to the whole section GSM-R system	Measuring and testing of the GSM-R locations, Commissioning of all equipment, Tools for RNP & RNO, Global Acceptance & Verification etc.	set	1	2,196,367.27	2,196,367.27	5/3.13
10	Base station of the GSM-R system - Belgrade Center-Zemun (included) Material	GSM-R BTS along the line.	set	1	1,227,742.45	1,227,742.45	5/3.13
11	Base station of the GSM-R system - Belgrade Center-Zemun (included) Works	GSM-R BTS along the line.	set	1	202,023.13	202,023.13	5/3.13
12	Base station of the GSM-R system - Zemun (excluded)-Batajnica (excluded)-Material	GSM-R BTS along the line.	set	1	370,885.53	370,885.53	5/3.13
13	Base station of the GSM-R system - Zemun (excluded)-Batajnica (excluded)-Works	GSM-R BTS along the line.	set	1	6,353.13	6,353.13	5/3.13
14	Base station of the GSM-R system - Batajnica (included)-Stara Pazova-Material	GSM-R BTS along the line.	set	1	606,405.07	606,405.07	5/3.13
15	Base station of the GSM-R system - Batajnica (included)-Stara Pazova-Works	GSM-R BTS along the line.	set	1	18,492.14	18,492.14	5/3.13
16	TRANSMISSION NETWORK FOR THE CRITICAL SERVICES - Belgrade Center-Zemun (included) Material	SDH, BITS, NMS. Fiber optic patch cord.	set	1	719,364.57	719,364.57	5/3.13
17	TRANSMISSION NETWORK FOR THE CRITICAL SERVICES - Belgrade Center-Zemun (included) Works	SDH, BITS, NMS. Fiber optic patch cord.	set	1	146,873.29	146,873.29	5/3.13
18	TRANSMISSION NETWORK FOR THE CRITICAL SERVICES -Zemun (excluded)-Batajnica (excluded)-Material	SDH, Fiber optic patch cord.	set	1	136,767.59	136,767.59	5/3.13

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
19	TRANSMISSION NETWORK FOR THE CRTITCAL SERVICES -Zemun (excluded)-Batajnica (excluded)-Works	SDH, Fiber optic patch cord.	set	1	16,138.46	16,138.46	5/3.13
20	TRANSMISSION NETWORK FOR THE CRTITCAL SERVICES - Batajnica (included)-Stara Pazova-Material	SDH, Fiber optic patch cord.	set	1	912,720.51	912,720.51	5/3.13
21	TRANSMISSION NETWORK FOR THE CRTITCAL SERVICES - Batajnica (included)-Stara Pazova-Works	SDH, Fiber optic patch cord.	set	1	124,960.92	124,960.92	5/3.13
M-2	STRUCTURES						
1	GSM-R TOWERS- Material/Equipment						
1-1	Belgrade-Zemun (included)	36m or 42m. Steel column.	set	1	382,833.07	382,833.07	5/3.13
1-2	Zemun (excluded)-Batajnica (excluded)	36m or 42m. Steel column.	set	1	76,566.61	76,566.61	5/3.13
1-3	Batajnica (included)-Stara Pazova	36m or 42m. Steel column.	set	1	229,699.84	229,699.84	5/3.13
N	RELOCATION AND PROTECTION OF TELECOMMUNICATION NETWORK						
1	COLLISION 1a -Work	parallel crossing of fibre-optic telephone cable TOSM 03 (8x12)xIIIx0,25x18 CMAN and newly designed railway line from km 4+570.00 to km 4+615 of the railway line	set	1	240.70	240.70	5/4.1
2	COLLISION 1b -Work	parallel crossing of fibre-optic telephone cable TOSM 03 (8x12)xIIIx0,25x18 CMAN and newly designed railway line from km 5+154.00 to km 5+290 railway line	set	1	337.28	337.28	5/4.1

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
3	COLLISION 1 -Work	the existing copper cables TK10 100x4x0.4 and TK10 150x4x0.4 overlapping new railway underpass and orthogonal crossing of copper cables with newly designed track, km 13 + 950.00 of the railway route, underpass next to Kamendin stop	set	1	674.28	674.28	5/4.1
4	COLLISION 2 -Work	orthogonal crossing of copper cable TK33 AR 1x4x0.6 with the newly designed track, km 17 + 720.00 of the railway route	set	1	194.55	194.55	5/4.1
5	COLLISION 3 -Work	orthogonal crossing of copper and fiber optic cables TK00V 200x4x0.4, TK10 5x4x0.6, TOSM 03 (8x6)x11x0.4x3.5 CMAN, TOSM 03 (2x6)x11x0.4x3.5 CMAN with the newly designed track, km 19+640.00 of the railway route, at the exit from Batajnica station	set	1	1,124.32	1,124.32	5/4.1
6	COLLISION 4-Work	vulnerable overhead network TK33 3x4x0.6 and parallel crossing of copper cable TK59MR 5x4x0.4 with the newly designed street (overbridge), from km 26+209.00 (Novi Sad right track) of the railway route – to km 26+400 (Novi Sad right track) of the railway route, Nova 3 St. from km 0+008.29 to km 0+111.00 of the road route	set	1	445.73	445.73	5/4.1

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
7	COLLISION 5-Work	orthogonal crossing of copper cable TK10 10x4x0.4 with a newly designed street (overbridge) from km 26 + 465.00 (Šid right track) of the line route - up to km 26 + 411 (Novi Sad right track) of the railway route, Omladinska Street extension at km 0 +450.00 of the road route	set	1	499.86	499.86	5/4.1
8	COLLISION 6-Work	vulnerability of the overhead network TK59U 1x4x0.6 with acquired houses, at km 26 + 962.00 (Novi Sad right track) of the railway route	set	1	37.63	37.63	5/4.1
9	COLLISION 7-Work	vulnerability of the overhead network TK59U 5x4x0.4 and TK59U TK59U 3x4x0.4 1x4x0.4 with acquired houses, from km 26 + 992.89 to km 27 + 108.33 (Novi Sad left track) of the railway route, Nova Pazova station	set	1	190.14	190.14	5/4.1
10	COLLISION 8 -Work	vulnerability of overhead network TK59U 1x4x0.6 with acquired houses, at km 27 + 689.00 (Novi Sad left track) of the railway route	set	1	37.63	37.63	5/4.1
11	COLLISION 9-Work	orthogonal crossing of fiber optic cables TOSM 03 (6x2) x11x0.4x3.5 CMAN and TOSM 03 (8x6) x11x0.4x3.5 CMAN with newly designed railway line at km 32 + 095.94 (Novi Sad left track) of the railway route	set	1	586.78	586.78	5/4.1

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
12	COLLISION 10 -Work	skew and orthogonal crossing of fiber optic cable and copper cables TOSM 03 (4x6)xIIx0.4x3.5 CMAN, TK59 GMR 75x4x0.4, TK10 100x4x0.6, TK10 15x4x0.6 with the railway route, as well as crossing of the existing telecommunication (TK) cables TK10 15x4x0.6, TK10 100x4x0.6, TK10 10x4x0.6, TOSM 03 (4x6)xIIx0.4x3.5 CMAN, TK59 GMR 75x4x0.4,TK10 150x4x0.4, TK10 150x4x0.6, TK10 200x4x0.6, TK10 5x4x0.6, TK10 1x4x0.6, TK10 25x4x0.4, TK10 15x4x0.4, TK10 50x4x0.4 and TK10 10x4x0.4 with the newly designed overbridge, from km 34+675.08 (Novi Sad left track) to km 34+884.45 (Novi Sad left track) of the railway route, entry to Stara Pazova station	set	1	26,371.88	26,371.88	5/4.1
13	COLLISION 11-Work	vulnerability of the overhead network TK59U 10x4x0.4 and TK59U 3x4x0.6 from km 34 + 824.8 to km 34 + 884.45 (Novi Sad left track) of the railway route, entry to Stara Pazova station	set	1	301.94	301.94	5/4.1
14	COLLISION 1a -Material/Equipment	parallel crossing of fibre-optic telephone cable TOSM 03 (8x12)xIIIx0,25x18 CMAN and newly designed railway line from km 4+570.00 to km 4+615 of the railway line	set	1	1,684.90	1,684.90	5/4.1
15	COLLISION 1b -Material/Equipment	parallel crossing of fibre-optic telephone cable TOSM 03 (8x12)xIIIx0,25x18 CMAN and newly designed railway line from km 5+154.00 to km 5+290 railway line	set	1	2,360.93	2,360.93	5/4.1
16	COLLISION 1 -Material/Equipment	the existing copper cables TK10 100x4x0.4 and TK10 150x4x0.4 overlapping new railway underpass and orthogonal crossing of copper cables with newly designed track, km 13 + 950.00 of the railway route, underpass next to Kamendin stop	set	1	4,719.99	4,719.99	5/4.1

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
17	COLLISION 2 -Material/Equipment	orthogonal crossing of copper cable TK33 AR 1x4x0.6 with the newly designed track, km 17 + 720.00 of the railway route	set	1	1,361.85	1,361.85	5/4.1
18	COLLISION 3 -Material/Equipment	orthogonal crossing of copper and fiber optic cables TK00V 200x4x0.4, TK10 5x4x0.6, TOSM 03 (8x6)x11x0.4x3.5 CMAN, TOSM 03 (2x6)x11x0.4x3.5 CMAN with the newly designed track, km 19+640.00 of the railway route, at the exit from Batajnica station	set	1	7,870.25	7,870.25	5/4.1
19	COLLISION 4-Material/Equipment	vulnerable overhead network TK33 3x4x0.6 and parallel crossing of copper cable TK59MR 5x4x0.4 with the newly designed street (overbridge), from km 26+209.00 (Novi Sad right track) of the railway route – to km 26+400 (Novi Sad right track) of the railway route, Nova 3 St. from km 0+008.29 to km 0+111.00 of the road route	set	1	3,120.10	3,120.10	5/4.1
20	COLLISION 5-Material/Equipment	orthogonal crossing of copper cable TK10 10x4x0.4 with a newly designed street (overbridge) from km 26 + 465.00 (Šid right track) of the line route - up to km 26 + 411 (Novi Sad right track) of the railway route, Omladinska Street extension at km 0 +450.00 of the road route	set	1	3,499.03	3,499.03	5/4.1
21	COLLISION 6-Material/Equipment	vulnerability of the overhead network TK59U 1x4x0.6 with acquired houses, at km 26 + 962.00 (Novi Sad right track) of the railway route	set	1	263.43	263.43	5/4.1

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
22	COLLISION 7-Material/Equipment	vulnerability of the overhead network TK59U 5x4x0.4 and TK59U TK59U 3x4x0.4 1x4x0.4 with acquired houses, from km 26 + 992.89 to km 27 + 108.33 (Novi Sad left track) of the railway route, Nova Pazova station	set	1	1,330.98	1,330.98	5/4.1
23	COLLISION 8 -Material/Equipment	vulnerability of overhead network TK59U 1x4x0.6 with acquired houses, at km 27 + 689.00 (Novi Sad left track) of the railway route	set	1	263.43	263.43	5/4.1
24	COLLISION 9-Material/Equipment	orthogonal crossing of fiber optic cables TOSM 03 (6x2) xIIx0.4x3.5 CMAN and TOSM 03 (8x6) xIIx0.4x3.5 CMAN with newly designed railway line at km 32 + 095.94 (Novi Sad left track) of the railway route	set	1	4,107.44	4,107.44	5/4.1
25	COLLISION 10 -Material/Equipment	skew and orthogonal crossing of fiber optic cable and copper cables TOSM 03 (4x6)xIIx0.4x3.5 CMAN, TK59 GMR 75x4x0.4, TK10 100x4x0.6, TK10 15x4x0.6 with the railway route, as well as crossing of the existing telecommunication (TK) cables TK10 15x4x0.6, TK10 100x4x0.6, TK10 10x4x0.6, TOSM 03 (4x6)xIIx0.4x3.5 CMAN, TK59 GMR 75x4x0.4, TK10 150x4x0.4, TK10 150x4x0.6, TK10 200x4x0.6, TK10 5x4x0.6, TK10 1x4x0.6, TK10 25x4x0.4, TK10 15x4x0.4, TK10 50x4x0.4 and TK10 10x4x0.4 with the newly designed overbridge, from km 34+675.08 (Novi Sad left track) to km 34+884.45 (Novi Sad left track) of the railway route, entry to Stara Pazova station	set	1	184,603.19	184,603.19	5/4.1

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
26	COLLISION 11-Material/Equipment	vulnerability of the overhead network TK59U 10x4x0.4 and TK59U 3x4x0.6 from km 34 + 824.8 to km 34 + 884.45 (Novi Sad left track) of the railway route, entry to Stara Pazova station	set	1	2,113.58	2,113.58	5/4.1
0	RELOCATION AND PROTECTION OF TELECOMMUNICATION NETWORK PART1.CABLE DUCT SYSTEM ROUTE						
1	TUNNEL "SENJAK" -Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	160.27	160.27	5/4.2
2	TUNNEL "TOSIN BUNAR - ENTRANCE"-Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	161.56	161.56	5/4.2
3	TUNNEL "TOSIN BUNAR - EXIT" - Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	120.52	120.52	5/4.2
4	stopping place Tošin Bunar-Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	3,214.90	3,214.90	5/4.2
5	railway station Zemun-Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	7,653.20	7,653.20	5/4.2
6	stopping place ALTINA-Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	3,551.36	3,551.36	5/4.2
7	railway station Zemunsko Polje-Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	3,556.62	3,556.62	5/4.2
8	stopping place KAMENDIN-Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	3,131.99	3,131.99	5/4.2
9	railway station BATAJNICA-Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	6,951.73	6,951.73	5/4.2
10	railway station NOVA PAZOVA-Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	2,322.64	2,322.64	5/4.2
11	railway station STARA PAZOVA-Work	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	3,504.31	3,504.31	5/4.2
12	TUNNEL "SENJAK" - Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	1,121.91	1,121.91	5/4.2
13	TUNNEL "TOSIN BUNAR - ENTRANCE"-Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	1,130.94	1,130.94	5/4.2
14	TUNNEL "TOSIN BUNAR - EXIT" - Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	843.62	843.62	5/4.2
15	stopping place Tošin Bunar- Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	22,504.29	22,504.29	5/4.2

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
16	railway station Zemun-Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	53,572.37	53,572.37	5/4.2
17	stopping place ALTINA-Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	24,859.52	24,859.52	5/4.2
18	railway station Zemunsko Polje-Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	24,896.31	24,896.31	5/4.2
19	stopping place KAMENDIN-Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	21,923.94	21,923.94	5/4.2
20	railway station BATAJNICA-Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	48,662.11	48,662.11	5/4.2
21	railway station NOVA PAZOVA-Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	16,258.46	16,258.46	5/4.2
22	railway station STARA PAZOVA-Material/Equipment	Pipes, excavation, sand, gravel. Establishing cable conduit route.	set	1	24,530.17	24,530.17	5/4.2
P	RELOCATION AND PROTECTION OF TELECOMMUNICATION INFRASTRUCTURE, PART 2: CIVIL WORKS FOR CABLE CONDUITS						
1	ZEMUN	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	46,840.64	46,840.64	5/4.3
2	TOSIN BUNAR	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	30,857.06	30,857.06	5/4.3
3	ALTINA	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	39,620.50	39,620.50	5/4.3
4	ZEMUN POLJA	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	46,903.01	46,903.01	5/4.3
5	KAMENDIN	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	31,618.18	31,618.18	5/4.3
6	BATAJNICA	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	55,288.90	55,288.90	5/4.3
7	NOVA PAZOVA	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	21,724.48	21,724.48	5/4.3

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No	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of books
8	STARA PAZOVA	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	31,237.52	31,237.52	5/4.3
9	TOSIN BUNAR ENTRANCE TO THE TUNNEL	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	5,584.37	5,584.37	5/4.3
10	TOSIN BUNAR OUT OF THE TUNNEL	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	5,584.37	5,584.37	5/4.3
11	SENJAK TUNNEL	Earth works, Concrete and reinforced concrete works, Reinforcement works, Masonry works, Other works.	set	1	5,584.37	5,584.37	5/4.3
Summary(USD):						62,195,448.40	

12 Thermotechnical Installations & Fire Suppression

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No.of Books
A Termotechnical installations in New Belgrade station							
	Termotechnical installations		Completion of the termotechnical installation	1	32,269.08	32,269.08	6/1
B Termotechnical installations in Tosin Bunar stopping place							
	Termotechnical installations		Completion of the termotechnical installation	1	26,143.64	26,143.64	6/1
C Termotechnical installations of Bezanijska Kosa tunnel							
1	Termotechnical installations		Completion of the termotechnical installations for the entrance of Bezanijska Kosa tunnel	1	26,143.64	26,143.64	6/1
2	Termotechnical installations		Completion of the termotechnical installations for the exit of Bezanijska Kosa tunnel	1	26,143.64	26,143.64	6/1
D Fire suppression system at Tosin Bunar stopping place							
	Fire suppression system at Tosin Bunar stopping place		Completion of fire suppression system	1	20,086.56	20,086.56	6/3
E Fire suppression system at Bezanijska Kosa tunnel							
1	Fire suppression system installations		Completion of fire suppression system installations for the entrance of Bezanijska Kosa tunnel	1	20,086.56	20,086.56	6/3
2	Fire suppression system installations		Completion of fire suppression system installations for the exit of Bezanijska Kosa tunnel	1	20,086.56	20,086.56	6/3
F Termotechnical installations of signal building in Zemun station							
	Termotechnical installations		Completion of the termotechnical installation	1	126,402.18	126,402.18	6/1
G Termotechnical installations of ETS building in Zemun station							
	Termotechnical installations		Completion of the termotechnical installation	1	4,778.27	4,778.27	6/1
H Termotechnical installations in Zemun station							

12 Thermotechnical Installations & Fire Suppression

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No.of Books
	Termotechnical installations		Completion of the termotechnical installation	1	8,840.84	8,840.84	6/1
I	Termotechnical installations of TK building at Altina stopping place						
	Termotechnical installations		Completion of the termotechnical installation	1	26,143.64	26,143.64	6/1
J	Termotechnical installations in Zemunsko Polje station						
	Termotechnical installations		Completion of the termotechnical installation	1	2,273.36	2,273.36	6/1
K	Termotechnical installations of TK building in Zemunsko Polje station						
	Termotechnical installations		Completion of the termotechnical installation	1	44,246.32	44,246.32	6/1
L	Termotechnical installations of TK building at Kamendin stopping place						
	Termotechnical installations		Completion of the termotechnical installation	1	26,143.64	26,143.64	6/1
M	Fire suppression system of dispatching building in Zemun station						
	Fire suppression system of dispatching building in Zemun station		Completion of fire suppression system	1	20,086.56	20,086.56	6/3
N	Fire suppression system of ETS building in Zemun station						
	Fire suppression system of ETS building in Zemun station		Completion of fire suppression system	1	20,086.56	20,086.56	6/3
O	Fire suppression system of TK building at Altina stopping place						
	Fire suppression system of TK building at Altina stopping place		Completion of fire suppression system	1	20,086.56	20,086.56	6/3
P	Fire suppression system of TK building at Kamending stopping place						
	Fire suppression system of TK building at Kamending stopping place		Completion of fire suppression system	1	20,086.56	20,086.56	6/3
Q	Termotechnical installations in Batajnica station						
	Termotechnical installations		Completion of the termotechnical installation	1	11,156.30	11,156.30	6/1
R	Termotechnical installations GSM-R building in Batajnica station						
	Termotechnical installations		Completion of the termotechnical installation	1	29,216.88	29,216.88	6/1
S	Termotechnical installations of TSP building in Batajnica station						
	Termotechnical installations		Completion of the termotechnical installation	1	4,462.52	4,462.52	6/1
T	Termotechnical installations of TK building in Batajnica station						

12 Thermotechnical Installations & Fire Suppression

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No.of Books
	Termotechnical installations		Completion of the termotechnical installation	1	44,246.32	44,246.32	6/1
U	Termotechnical installations in Nova Pazova station						
	Termotechnical installations		Completion of the termotechnical installation	1	37,697.36	37,697.36	6/1
V	Termotechnical installations in Stara Pazova station						
	Termotechnical installations		Completion of the termotechnical installation	1	4,462.52	4,462.52	6/1
W	Termotechnical installations of TK building in Stara Pazova station						
	Termotechnical installations		Completion of the termotechnical installation	1	44,246.32	44,246.32	6/1
X	Termotechnical installations of TSP building in Stara Pazova station						
	Termotechnical installations		Completion of the termotechnical installation	1	2,673.30	2,673.30	6/1
Y	Termotechnical installations pf power supply building in Stara Pazova station						
	Termotechnical installations		Completion of the termotechnical installation	1	21,428.52	21,428.52	6/1
Z	Fire suppression system of TK building in Batajnica station						
	Fire suppression system of TK building in Batajnica station		Completion of fire suppression system	1	20,086.56	20,086.56	6/3
	Summary(USD)					709,810.75	

13 Lifts

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
1	Lifts	Tosin bunar	Completion of installation of each lift	2	26,944.07	53,888.14	6/2-1
2	Lifts	Zemun	Completion of installation of each lift	6	19,175.99	115,055.91	6/2-2
3	Lifts	altina	Completion of installation of each lift	2	22,689.75	45,379.49	6/2-3
4	Lifts	Zemun polje	Completion of installation of each lift	3	20,389.26	61,167.77	6/2-4
5	Lifts	Kamendin	Completion of installation of each lift	2	20,326.23	40,652.46	6/2-5
6	Lifts	Batajnica	Completion of installation of each lift	4	20,137.15	80,548.59	6/2-6
7	Lifts	Nova Pazova	Completion of installation of each lift	2	19,380.83	38,761.65	6/2-7
8	Lifts	Stara Pazova	Completion of installation of each lift	2	19,380.83	38,761.65	6/2-8
Summary(USD)						474,215.66	

14 Roads Traffic Signalization and Equipment

No.	Item	Description	Unit	NO. OF Unit	Unit Price (USD)	Total Price (USD)	No. of Books
A	Information signs at New Belgrade station						
	Information signs		Completion of installation of information signs	1	3,764.27	3,764.27	8/3
B	Information signs at Tosin Bunar stopping place						
	Information signs		Completion of installation of information signs	1	2,235.10	2,235.10	8/3
C	Traffic signs and markings for the overpass at km 13+288.51						
	Traffic signs and equipment		Completion of installation of traffic signs and equipment	1	208,782.25	208,782.25	8/2.1,2.2,2.3
D	Traffic signs and markings for the crossover from km12+700-km13+200						
	Traffic signs and equipment		Completion of installation of traffic signs and equipment	1	22,976.27	22,976.27	8/2.1,2.2,2.3
E	Traffic signs and markings for the road at Zemun station						
	Traffic signs and equipment		Completion of installation of traffic signs and equipment	1	9,652.22	9,652.22	8/2.1,2.2,2.3
F	Traffic signs and markings for the overpass at km15+915.43						
	Traffic signs and equipment		Completion of installation of traffic signs and equipment	1	10,061.26	10,061.26	8/2.1,2.2,2.3
G	Information signs at Zemun station						
	Information signs		Completion of installation of information signs	1	7,864.09	7,864.09	8/3
H	Information signs at Altina stopping place						
	Information signs		Completion of installation of information signs	1	2,508.64	2,508.64	8/3
I	Information signs at Zemunsko Polje station						
	Information signs		Completion of installation of information signs	1	3,379.86	3,379.86	8/3
J	Information signs at Kamendin stopping place						
	Information signs		Completion of installation of information signs	1	2,063.73	2,063.73	8/3
K	Traffic signs and markings for overpass at km 26+392.67						
	Traffic signs and equipment		Completion of installation of traffic signs and equipment	1	43,667.40	43,667.40	8/2.1,2.2,2.3
L	Traffic signs and markings for the overpass at Nova Pazova station						
	Traffic signs and equipment		Completion of installation of traffic signs and equipment	1	12,558.16	12,558.16	8/2.1,2.2,2.3

14 Roads Traffic Signalization and Equipment

No.	Item	Description	Unit	NO. of Unit	Unit Price (USD)	Total Price (USD)	No. of Books
M	Traffic signs and markings for the overpass at km34+696.44						
	Traffic signs and equipment		Completion of installation of traffic signs and equipment	1	121,275.72	121,275.72	8/2.1,2.2,2.3
N	Information Signs at Batajnica station						
	Information signs		Completion of installation of information signs	1	5,379.70	5,379.70	8/3
O	Information signs at Nova Pazova station						
	Information signs		Completion of installation of information signs	1	3,659.37	3,659.37	8/3
P	Information signs at Stara Pazova station						
	Information signs		Completion of installation of information signs	1	4,291.00	4,291.00	8/3
Summary(USD)						464,119.06	

15 Landscaping, planning of platform and environment measures

No.	Item	Descr.	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No.of Books
A Platforms and Canopies in New Belgrade Railway Station							
1	Disassembly and Demolition Works		Completion of disassembling and demolition works for each platform	6	9,397.18	56,383.09	9/4
2	Concrete and reinforced concrete works		Completion of concrete and reinforced concrete works for each platform	6	17,905.73	107,434.38	9/4
3	Reinforcement works		Completion of concrete and reinforced concrete works for each platform	6	3,476.75	20,860.48	9/4
4	Steelworks		Completion of steelworks for each platform	6	114,059.30	684,355.78	9/4
5	Waterproof works		Completion of waterproof works for each platform	6	80,574.94	483,449.62	9/4
6	Metal works		Completion of metal works of protection screen at the staircase for each platform	4	72,645.59	290,582.36	9/4
7	Platform canopy		Completion of installation of canopy for each platform	4	126,378.28	505,513.11	9/4
8	Asphalt concrete layer		Completion of the asphalt concrete layer works for each platform	6	25,424.67	152,548.04	9/4
9	Platform facilities		Completion of the works	1	32,261.98	32,261.98	9/4
10	Platform walls		Completion of each platform walls	6	42,739.29	256,435.73	9/4
B Platforms and Canopies in Tošin Bunar stopping place							
1	Platform canopy and facilities		Completion of each platform canopy and facilities	2	46,114.48	92,228.96	9/5
2	Platform walls		Completion of each platform walls	2	39,234.35	78,468.70	9/5
C Platform canopy and landscaping for station building in Zemun railway station							
1	Landscaping		Completion of the landscaping works	1	119,244.22	119,244.22	9/6
2	Platform canopy and facilities		Completion of each platform canopy and facilities	4	125,935.64	503,742.54	9/7
3	Platform walls		Completion of each platform walls	4	228,747.38	914,989.52	9/7
D Platforms and Canopies in Altina stopping place							
1	Platform canopy and facilities		Completion of each platform canopy and facilities	2	48,086.40	96,172.80	9/8
2	Platform walls		Completion of each platform walls	2	44,209.79	88,419.59	9/8
E Platform Facilities in Zemunsko polje station							
1	Platform facilities and cleaning works		Completion of each platform facilities and cleaning works	3	44,021.33	132,064.00	9/9
2	Platform walls		Completion of each platform walls	3	110,297.37	330,892.11	9/9
3	landscaping		Completion of landscaping works	1	35,792.60	35,792.60	9/15
F Platform Facilities and canopies in Kamendin stopping place							

15 Landscaping, planning of platform and environment measures

No.	Item	Descr.	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)	No.of Books
1	Platform canopy and facilities		Completion of each platform canopy and facilities	2	48,995.51	97,991.02	9/10
2	Platform walls		Completion of each platform walls	2	40,193.09	80,386.17	9/10
G	Platform walls in Batajnica railway Station						
1	Platform walls		Completion of each platform walls	3	166,706.59	500,119.78	9/11
2	Platform canopy and facilities		Completion of each platform canopy and facilities	3	53,258.62	159,775.86	9/11
H	Landscaping for station building in Batajnica railway station						
	Landscaping		Completion of landscaping works	1	61,976.55	61,976.55	9/14
I	Platform facilities and canopies in Nova Pazova railway station						
	Platform canopy and facilities		Completion of each platform canopy and facilities	2	171,354.63	342,709.26	9/12
J	Platform walls in Nova Pazova railway Station						
	Platform walls		Completion of each platform walls	1	115,897.32	115,897.32	9/12
K	Landscaping for station building in Stara Pazova railway station						
	Landscaping		Completion of landscaping works	1	119,365.00	119,365.00	9/13
L	Noise Barriers						
	Noise Barriers		Completion of 10% of the total area according to Design for Execution of the Works	10	453,794.89	4,537,948.90	9/3
M	Environmental protection measures prevent noise						
	Environmental protection measures prevent noise		Completion of the works	1	113,448.72	113,448.72	9/3
Summary(USD)						11,111,458.19	

II Temporary and Transition works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)
A	Temporary road					
1	Temporary road	the section of left side from Belgrade center to Zemun station(include)	completion of temporary road for this section of left side	1	119,661.29	119,661.29
2	Temporary road	the section of right side from Belgrade center to Zemun station(include)	completion of temporary road for the section of right side	1	119,661.29	119,661.29
3	Temporary road	the section of left side from Zemun station(exclude) to Batajnica station(exclude)	completion of temporary road for the section of left side	1	316,304.42	316,304.42
4	Temporary road	the section of right side from Zemun station(exclude) to Batajnica station(exclude)	completion of temporary road for the section of right side	1	316,304.42	316,304.42
5	Temporary road	the section of left side from Batajnica station(include) to Stara Pazova station(include)	completion of temporary road for the section of left side	1	859,278.64	859,278.64
6	Temporary road	the section of right side from Batajnica station(include) to Stara Pazova station(include)	completion of temporary road for the section of right side	1	859,278.64	859,278.64
B	Temporary electricity lines					
1	Temporary electricity lines	section for Belgrade center-zemun station(include)	completion of temporary electricity lines for the section	1	315,661.05	315,661.05
2	Temporary electricity lines	section for Zemun station(exclude)-Batajnica station(exclude)	completion of temporary electricity lines for the section	1	552,406.83	552,406.83
3	Temporary electricity lines	section for Batajnica station(include) -Stara Pazova station(include)	completion of temporary electricity lines for the section	1	236,745.78	236,745.78
C	Temporary site for storage of track materials and welding works					
	Temporary site for storage of track materials and welding works		completion of temporary site	1	694,840.54	694,840.54
D	precasting plant for T-girders and other concrete pieces					
	precasting plant for T-girders and other concrete pieces		completion of precasting plant	1	275,107.24	275,107.24
E	Material storage yard					
	Material storage yard		completion of each material storage yard	6	270,767.36	1,624,604.15
F	Spoiling and levelling material site					
1	material site 1 forsection for Belgrade center-Batajnica station(exclude)	completion of spoiling and leveling material site of section for Belgrade center-Batajnica station(exclude)	completion of material site 1	1	501,309.20	501,309.20

II Temporary and Transition works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)
2	material site 2 for section for Batajnica station(include)-Stara Pazova station(include)	completion of spoiling and leveling material site of section for Batajnica station(include)-Stara Pazova station(include)	completion of material site 2	1	410,162.07	410,162.07
G	Steel processing plant					
	Steel processing plant	located on the bridge sites	Completion of steel processing plant	4	166,328.96	665,315.84
H	construction protective shelf for overpass crossing the railway					
	construction protective shelf for overpass crossing the railway		Completion of each construction protective shelf for overpass crossing the railway	4	53,202.61	212,810.44
I	Pumping measures for construction of culvert or underpass or subway					
	Pumping measures for construction of culvert or underpass or subway		Completion of each pumping measure for construction of culvert or underpass or subway	7	118,289.84	828,028.87
J	Transitional works					
1	Transitional works	include earthworks, laying of rails,assembling switches,maintaining track,dismantling of track and switches at site	completion of transitional works for the section of left side from Belgrade center to Zemun station(include)	1	1,604,763.19	1,604,763.19
2	Transitional works	include earthworks, laying of rails,assembling switches,maintaining track,dismantling of track and switches at site	completion of transitional works for the section of right side from Belgrade center to Zemun station(include)	1	1,604,763.19	1,604,763.19
3	Transitional works	include earthworks, laying of rails,assembling switches,maintaining track,dismantling of track and switches at site	completion of transitional works for the section of left side from Zemun station(exclude) to Batajnica station(exclude)	1	1,203,572.39	1,203,572.39
4	Transitional works	include earthworks, laying of rails,assembling switches,maintaining track,dismantling of track and switches at site	completion of transitional works for the section of right side from Zemun station(exclude) to Batajnica station(exclude)	1	1,203,572.39	1,203,572.39
5	Transitional works	include earthworks, laying of rails,assembling switches,maintaining track,dismantling of track and switches at site	completion of transitional works for the section of left side from Batajnica station(include) to Stara Pazova station(include)	1	1,203,572.39	1,203,572.39
6	Transitional works	include earthworks, laying of rails,assembling switches,maintaining track,dismantling of track and switches at site	completion of transitional works for the section of right side from Batajnica station(include) to Stara Pazova station(include)	1	1,203,572.39	1,203,572.39
K	OCS					

II Temporary and Transition works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)
1	OCS transitional works	transitional works of existing OCS caused by civil construction in open tracks. For instance, making temporary anchor for tensions that affect under-construction and operational parts including catenary adjustments, setting up new temporary catenary for existing operation and temporary railway lines, making adjustments and connections for interfaces between under-construction and existing lines.	Left side of section Belgrade Centre Station(not included) to Zemun Station (included):	1	158,828.21	158,828.21
2	OCS transitional works	transitional works of existing OCS caused by civil construction in open tracks. For instance, making temporary anchor for tensions that affect under-construction and operational parts including catenary adjustments, setting up new temporary catenary for existing operation and temporary railway lines, making adjustments and connections for interfaces between under-construction and existing lines.	Right side of section Belgrade Centre Station(not included) to Zemun Station (included):	1	158,828.21	158,828.21
3	OCS transitional works	transitional works of existing OCS caused by civil construction in open tracks. For instance, making temporary anchor for tensions that affect under-construction and operational parts including catenary adjustments, setting up new temporary catenary for existing operation and temporary railway lines, making adjustments and connections for interfaces between under-construction and existing lines.	Left side of section Zemun Station(exclude) to Batajnica Station (exclude):	1	238,242.32	238,242.32
4	OCS transitional works	transitional works of existing OCS caused by civil construction in open tracks. For instance, making temporary anchor for tensions that affect under-construction and operational parts including catenary adjustments, setting up new temporary catenary for existing operation and temporary railway lines, making adjustments and connections for interfaces between under-construction and existing lines.	Right side of section Zemun Station(exclude) to Batajnica Station (exclude):	1	238,242.32	238,242.32
5	OCS transitional works	transitional works of existing OCS caused by civil construction in open tracks. For instance, making temporary anchor for tensions that affect under-construction and operational parts including catenary adjustments, setting up new temporary catenary for existing operation and temporary railway lines, making adjustments and connections for interfaces between under-construction and existing lines.	Left side of section Batajnica Station(included) to Stara Pazova Station (included):	1	397,070.53	397,070.53
6	OCS transitional works	transitional works of existing OCS caused by civil construction in open tracks. For instance, making temporary anchor for tensions that affect under-construction and operational parts including catenary adjustments, setting up new temporary catenary for existing operation and temporary railway lines, making adjustments and connections for interfaces between under-construction and existing lines.	Right side of section Batajnica Station(included) to Stara Pazova Station (included):	1	397,070.53	397,070.53
7	Resource management centre of electrification execution	Base built for executing works of electrification, which includes production line for prefabrication of cantilevers, integrated equipment droppers, etc., storage of the equipment such as contact conduct wire, catenary sag, additional conductors, cantilevers assemblies, etc., material warehouse, management centre, test zone, living facilities for staff and so on.	pcs	1	3,790,360.35	3,790,360.35
L	Power Supply					
	Temporary power supply facilities		pcs	1	90,758.98	90,758.98
M	Signaling and TK					

II Temporary and Transition works

No.	Item	Description	Unit	No. of Unit	Unit Price (USD)	Total Price (USD)
1	Measures for the protection of signal equipments	During the transitional period, the newly installed outdoor signal equipment (signal machines, switch machines, etc.) must be protected due to the simultaneous works on construction of the station and signaling construction. Set enclosure, warning signs, with the station construction, staff patrolling care. The price of the devices do not include the protection fee.	station	6	34,412.78	206,476.67
2	Space for storing signal and TK devices (warehouse with controlled temperature, without penetration of moisture and dust, yard for external equipment, ...) and office space for people within such a logistics center.	The signal and telecommunication equipment needs to be purchased and transported in a unified way, which requires the storage of signal and telecommunication equipment in the warehouse. The construction base is needed to provide accommodation for construction workers and storage of tools.	place	1	834,914.09	834,914.09
Summary(USD):						23,442,088.88