



SCE

Site and Civil Engineering

## FINAL REPORT

July.2022 year

Aldijana Hodzic

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## PROJECT TASK

*In order to define the unit prices on the basis of reconstructed sanitary parts, analyzes of the following buildings were performed:*

*Building 0004 , Building 0011, Building 0022 , Building 0026 , Building 0037*

*Building 0053 , Building 0073 , Building 0112 , Building 0113 , Building 0190*

*Building 0251*

On the basis of all contracts as well as services that are defined by the prices in them, the data and descriptions of the services that are defined are used. In this way, there are several different contracts for the same object, as shown in the tables. The formation of the unit price is based on two criteria. One of the criteria is a square meter, and the second criterion is a unit of equipment that should be used in the sanitary parts of the building.

*The methodologies used during this research are:*

- use of preliminary measurements and precalculations already done
- calculation of surfaces taken from GIS
- counting the installed new equipment
- field visits to buildings and photography of finished works



## BUILDING 0004

### Contracts

B1568- Technical studies, site facilities, removal and demoliten work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.

S209 - Various carpentry work

S233- Modification of instrumentation path from the terrac T-002 to S-445 Heating SST. The process will include identification/markig of the 2 harnesses of connection on the 2 probe modules to the roo S-437 technique and their connections in the control cabinet identification/markig of the 2 cable harnesses connection on the 2 probe modules to Technical room S-437 and their connections in the control cabinet F0004FETN1.

S2349- Re-carpeting and floor painting in front of the doors of the toilets in building 4 (3-102-103, 2/102-103, 1-/102-103, R/-102-103)

### Area

Renovated area is 46.80 m<sup>2</sup>. In this area are included S-445; S-443 ; R-102 ; R-103 ; 1-102 ; 1-103 ; 2-102 ; 2-103 ; 3-102 ; 3-103. All areas are taken from GIS.

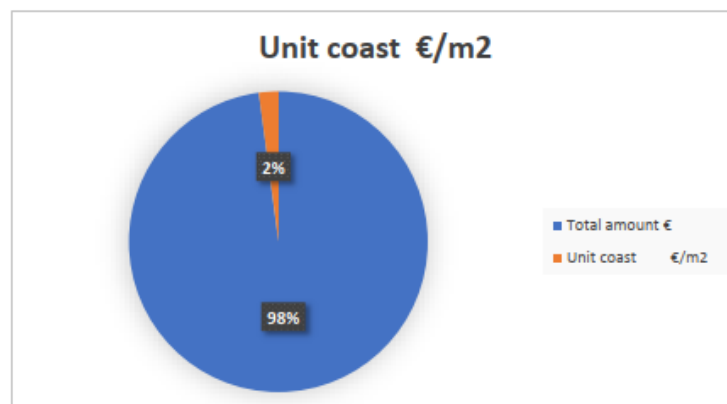
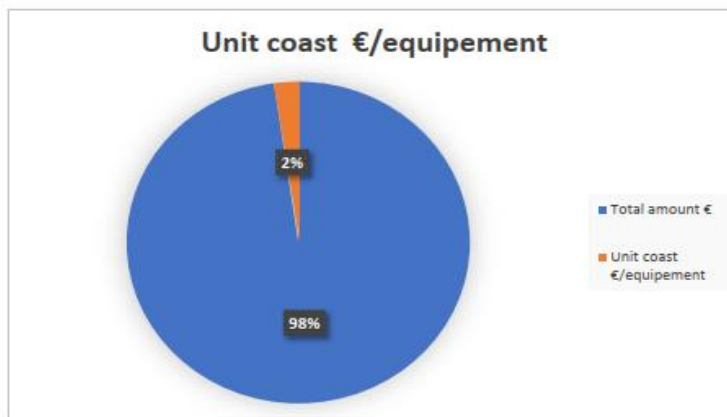
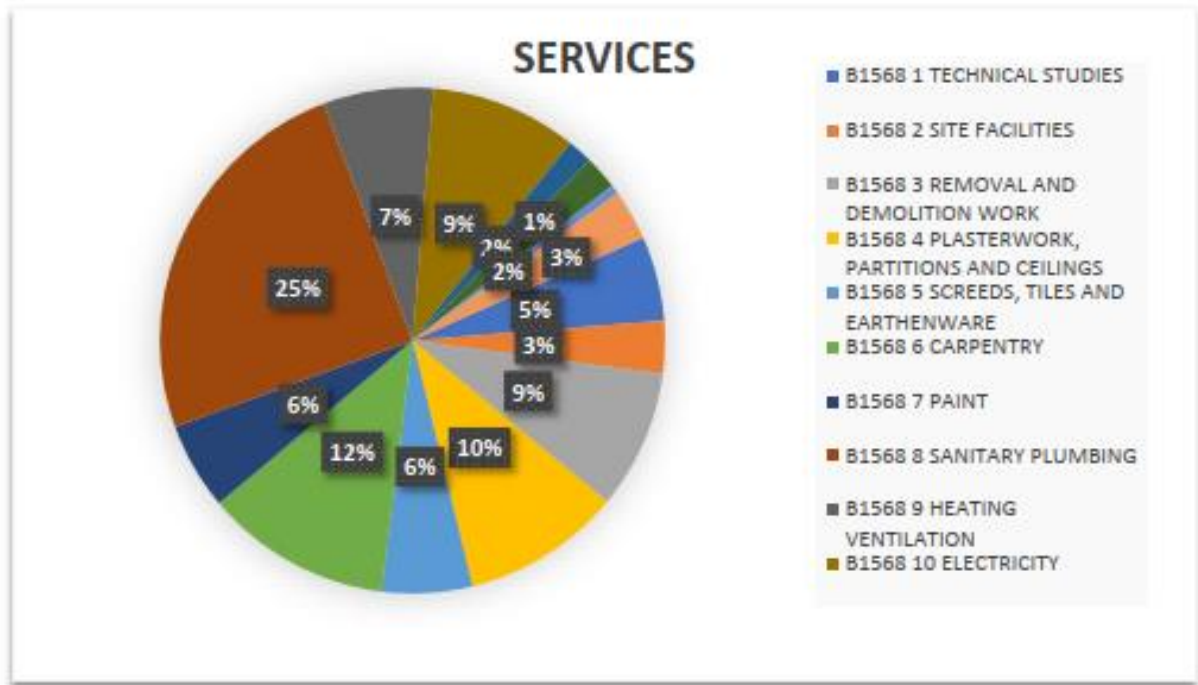


All the pictures of renovated sanitary areas has been taken directly from the site.

I BUILDING 0004					
Type of object	Offices laboratories				
Date	Building constructed in 1963				
Number of contract	Number	DESCRIPTION OF THE WORK	Total amount €	Unit coast €/m2	Unit coast €/équipement
B1568	1	TECHNICAL STUDIES	7,369.14	157.46	171.38
B1568	2	SITE FACILITIES	4,581.60	97.90	106.55
B1568	3	REMOVAL AND DEMOLITION WORK	12,092.13	258.38	281.21
B1568	4	PLASTERWORK, PARTITIONS AND CEILINGS	13,865.17	296.26	322.45
B1568	5	SCREEDS, TILES AND EARTHENWARE	7,876.95	168.31	183.18
B1568	6	CARPENTRY	16,235.22	346.91	377.56
B1568	7	PAINT	7,593.66	162.26	176.60
B1568	8	SANITARY PLUMBING	33,791.54	722.04	785.85
B1568	9	HEATING VENTILATION	9,598.75	205.10	223.23
B1568	10	ELECTRICITY	12,803.51	273.58	297.76
B1568	11	MANAGEMENT , HOLD SCHEDULES	2,226.00	47.56	51.77
S233	12	REPARATION CABLES	2,928.98	62.59	68.12
S249	13	RECOVERY SANITARY FLOOR	804.78	17.20	18.72
S209	14	REPLACEMENT SANITARY WINDOW	4,388.00	93.76	102.05
TOTAL			136,155.43	2909.30	3166.41

TOTAL AREA BEFORE RENOVATION	46.80	m2
TOTAL NUMBER OF EQUIPEMENT	43.00	U
WC	8.00	U
LAVABO	8.00	U
URINIAL	4.00	U
RADIATOR	5.00	U
TECHNICAL LAVABO	1.00	U
VMC	1.00	U
LIGHTING	16.00	U

Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.



*The services diagram shows all the works with percentage participation in their phases. On the basis of the conclusions reached, diagrams were created in which the unit prices are shown based on the square meter as well as the equipment unit in the reconstruction process.*



## BUILDING 0011

### Contracts

B1568- Technical studies, site facilities, removal and demoliten work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.

S209- Replacement of 4 windows according to estimate n° 638 of 06.08.2020.

### Area

Renovated area is 11.50 m<sup>2</sup>. In this area are included R-101 ; 1-102 ; 1-101 . All areas are taken from GIS.



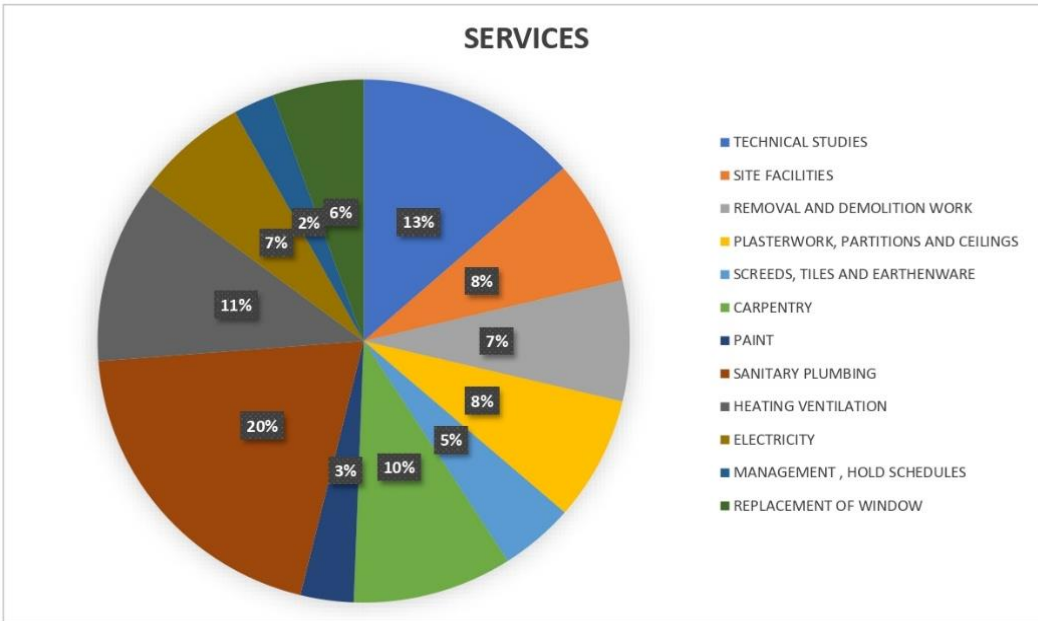
*All the pictures of renovated sanitary areas has been taken directly from the site.*

BUILDING 0011					
Type of object	Offices laboratories				
Date	Building constructed in 1962				
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/équipement
B1568	1	TECHNICAL STUDIES	8,002.74	695.89	421.20
B1568	2	SITE FACILITIES	4,581.60	398.4	241.14
B1568	3	REMOVAL AND DEMOLITION WORK	4,419.86	384.34	232.62
B1568	4	PLASTERWORK, PARTITIONS AND CEILINGS	4,532.80	394.16	238.57
B1568	5	SCREEDS, TILES AND EARTHENWARE	2,675.03	232.61	140.79
B1568	6	CARPENTRY	5,748.36	499.86	302.55
B1568	7	PAINT	1,910.54	166.13	100.55
B1568	8	SANITARY PLUMBING	11,811.13	1027.05	621.64
B1568	9	HEATING VENTILATION	6,768.40	588.56	356.23
B1568	10	ELECTRICITY	4,007.01	348.44	210.90
B1568	11	MANAGEMENT , HOLD SCHEDULES	1,468.80	127.72	77.31
S209	11	REPLACEMENT OF WINDOW	3,287.00	285.83	173.00
TOTAL			55926.27	4863.15	2943.49

TOTAL AREA BEFORE RENOVATION	11.50	m2
TOTAL NUMBER OF EQUIPEMENT	19.00	U
WC	3.00	U
LAVABO	3.00	U
URINIAL	2.00	U
TECHNICAL LAVABOO	1.00	U
RADIATOR	3.00	U
VMC	1.00	U
LIGHTING	6.00	U

*Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.*





*The services diagram shows all the works with percentage participation in their phases. On the basis of the conclusions reached, diagrams were created in which the unit prices are shown based on the square meter as well as the equipment unit in the reconstruction process.*

## Contracts

**B1568-** Technical studies, site facilities, removal and demoliten work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.

**S231-** Punctual replacement flexible floor.

## Area

Renovated area is 26.60 m<sup>2</sup>. In this area are included R-101 ; 1-102 ; 1-101 .  
All areas are taken from GIS.

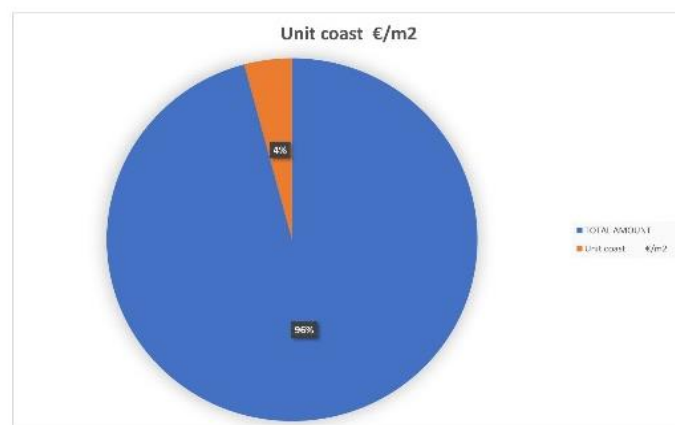
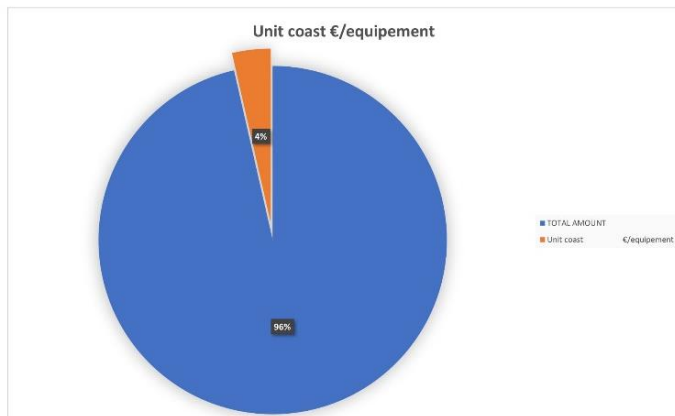
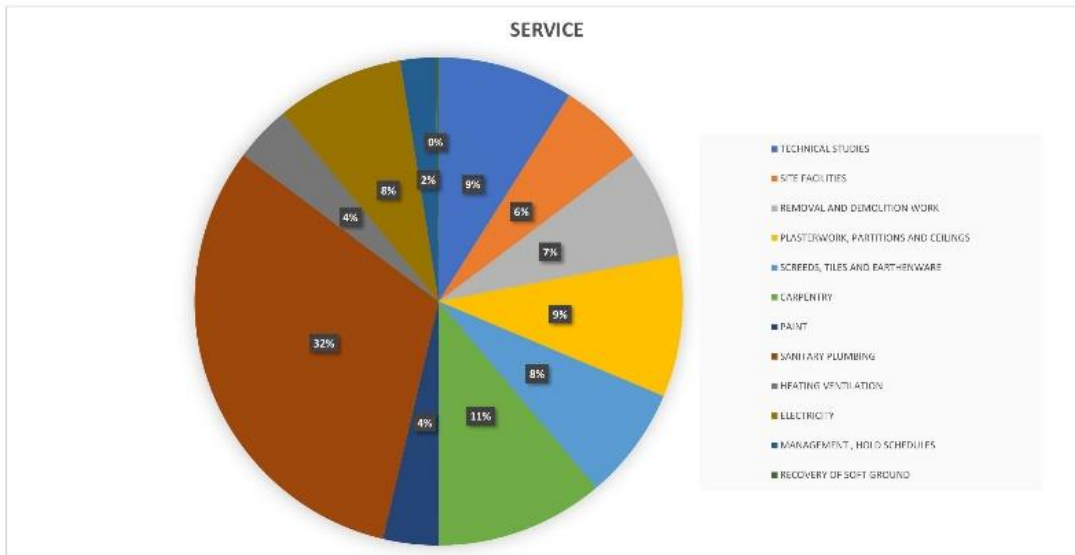
## BUILDING 0022



BUILDING 0022					
Type of object	Offices laboratories				
Date	Building constructed in 1965				
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/equipment
B1568/00	1	TECHNICAL STUDIES	7,166.47	311.59	265.42
B1568/00	2	SITE FACILITIES	4,581.00	199.17	169.67
B1568/00	3	REMOVAL AND DEMOLITION WORK	5,790.80	251.77	214.47
B1568/00	4	PLASTERWORK, PARTITIONS AND CEILINGS	7,477.47	325.11	276.94
B1568/00	5	SCREEDS, TILES AND EARTHENWARE	5,973.82	259.73	221.25
B1568/00	6	CARPENTRY	8,898.20	386.88	329.56
B1568/00	7	PAINT	2,944.93	128.04	109.07
B1568/00	8	SANITARY PLUMBING	25,182.15	1094.88	932.67
B1568/00	9	HEATING VENTILATION	3,005.26	130.66	111.31
B1568/00	10	ELECTRICITY	6,754.15	293.66	250.15
B1568/00	11	MANAGEMENT , HOLD SCHEDULES	1,867.05	81.18	69.15
S231	12	RECOVERY OF SOFT GROUND	154.00	6.70	5.70
TOTAL			79,795.30	3469.36	2955.38

Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERN as the initiator.

TOTAL AREA BEFORE RENOVATION	23.00	m2
TOTAL NUMBER OF EQUIPEMENT	27.00	U
LAVABO FOR PEOPLE WITH HANDICAP	1.00	U
WC FOR PEOPLE WITH HANDICAP	1.00	U
WC	5.00	U
LAVABO	6.00	U
URINIAL	2.00	U
TECHNICAL LAVABOO	1.00	U
VMC	1.00	U
LIGHTING	10.00	U



*The services diagram shows all the works with percentage participation in their phases. On the basis of the conclusions reached, diagrams were created in which the unit prices are shown based on the square meter as well as the equipment unit in the reconstruction process.*

## BUILDING 0026

### Contracts

**B1568-** *Technical studies, site facilities, removal and demoliten work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.*

**B1569-** *Sanitary asbestos removal , 1 vinyl floors, tiles and skirting boards .*

**S249-** *Flexible floor recovery in front of the building's bathroom door.*

### Area

Renovated area is 20.90 m<sup>2</sup>. In this area are included R-101 ; 1-101 ; 2-101 . *All areas are taken from GIS.*

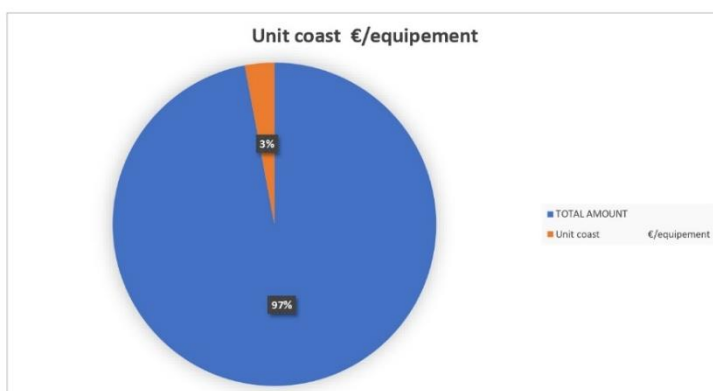
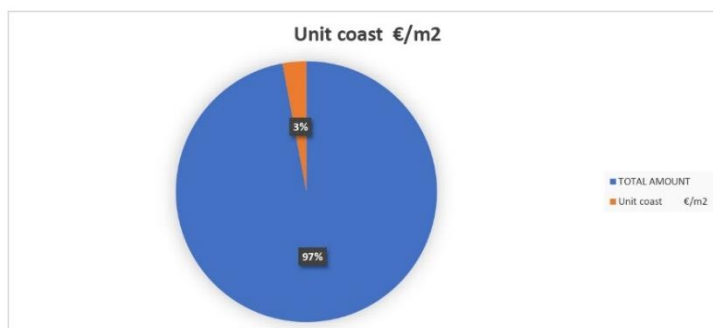
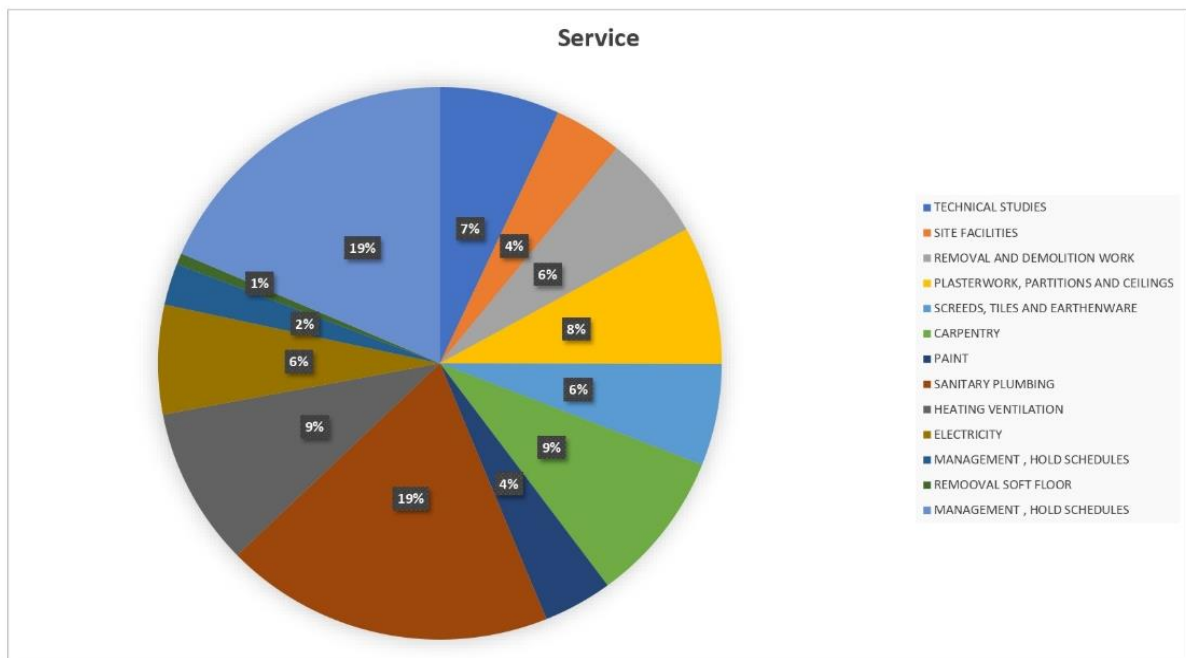


BUILDING 0026					
Type of object	Offices laboratories				
Date	Building constructed in 1970				
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/équipement
B1568	1	TECHNICAL STUDIES	8,081.94	386.70	244.91
B1568	2	SITE FACILITIES	4,581.60	219.22	138.84
B1568	3	REMOVAL AND DEMOLITION WORK	7,188.89	343.97	217.85
B1568	4	PLASTERWORK, PARTITIONS AND CEILINGS	9,515.39	455.28	288.35
B1568	5	SCREEDS, TILES AND EARTHENWARE	6,974.72	333.72	211.36
B1568	6	CARPENTRY	10,392.88	497.27	314.94
B1568	7	PAINT	4,658.60	222.90	141.17
B1568	8	SANITARY PLUMBING	22,218.85	1063.10	673.30
B1568	9	HEATING VENTILATION	10,848.37	519.06	328.74
B1568	10	ELECTRICITY	7,491.43	358.44	227.01
B1568	11	MANAGEMENT , HOLD SCHEDULES	2,850.20	136.37	86.37
S249	12	REMOVAL SOFT FLOOR	772.10	36.94	23.40
B1569	13	MANAGEMENT , HOLD SCHEDULES	21,690.00	1037.80	657.27
TOTAL			117,264.97	3553.48	3553.48

TOTAL AREA BEFORE RENOVATION	20.90	m2
TOTAL NUMBER OF EQUIPEMENT	33.00	U
WC	6.00	U
LAVABO	6.00	U
URINIAL	2.00	U
TECHNICAL LAVABOO	1.00	U
RADIATOR	6.00	U
VMC	1.00	U
LIGHTING	11.00	U

*Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator*



*The services diagram shows all the works with percentage participation in their phases. On the basis of the conclusions reached, diagrams were created in which the unit prices are shown based on the square meter as well as the equipment unit in the reconstruction process*



## **BUILDING 0053**

### **Contracts**

**B1568-** *Technical studies, site facilities, removal and demoliten work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.*

**S231-** *realization of a resin in front of the door of the sanitary man , installation of a carpet in front of the bathroom door women, Neat removal of the existing resilient floor, Careful removal of existing resilient flooring.*

**S249-** *Carpet and resin floor covering.*

**S209-** *Window Replacement which will include white primer coat and fittings and double glazing. All the necessary fixing and covering parts, such as joint covers, water drains, caulking, settings and adjustments.*



### **Area**

Renovated area is 22.80 m<sup>2</sup>. In this area are included R-101 ; 1-101.

*All areas are taken from GIS*



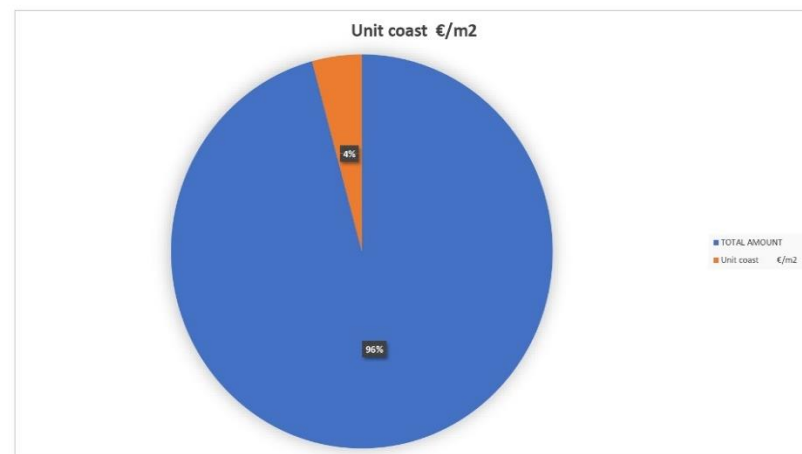
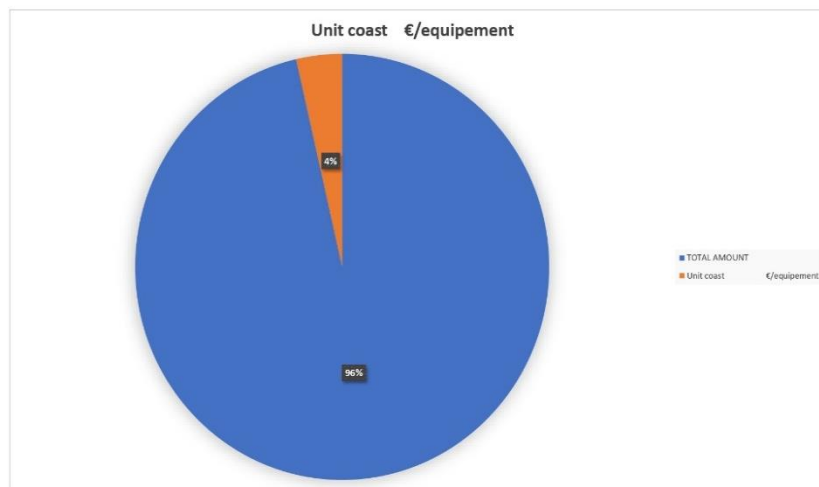
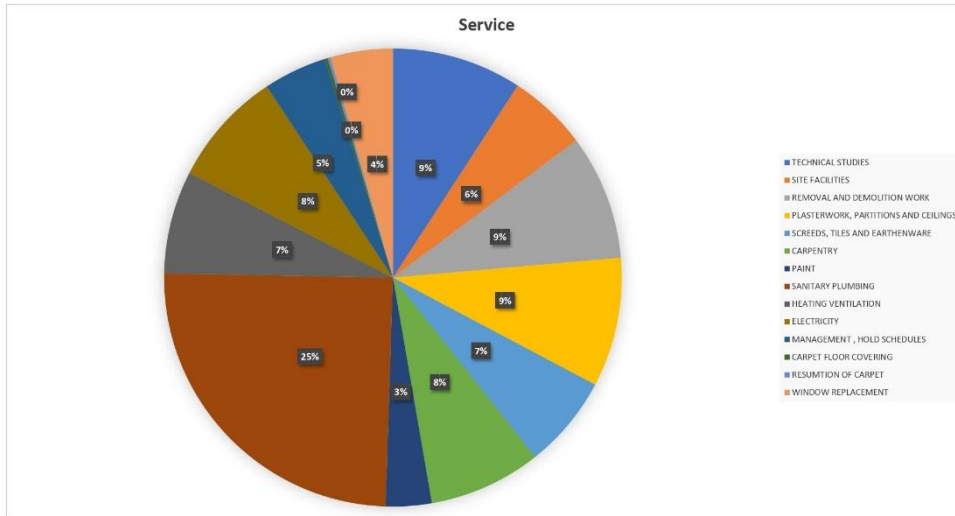
*All the pictures of renovated sanitary areas has been taken directly from the site.*

BUILDING 0053					
Type of object	Offices laboratories				
Date	Building constructed in 1957				
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/équipement
B1568/00	1	TECHNICAL STUDIES	7,527.54	330.16	278.80
B1568/00	2	SITE FACILITIES	4,581.00	200.92	169.67
B1568/00	3	REMOVAL AND DEMOLITION WORK	7,249.37	317.95	268.50
B1568/00	4	PLASTERWORK, PARTITIONS AND CEILINGS	7,482.77	328.19	277.14
B1568/00	5	SCREEDS, TILES AND EARTHENWARE	5,393.53	236.56	199.76
B1568/00	6	CARPENTRY	6,510.82	285.56	241.14
B1568/00	7	PAINT	2,656.32	116.51	98.38
B1568/00	8	SANITARY PLUMBING	20,305.54	890.59	752.06
B1568/00	9	HEATING VENTILATION	5,958.23	261.33	220.68
B1568/00	10	ELECTRICITY	6,676.47	292.83	247.28
B1568/00	11	MANAGEMENT , HOLD SCHEDULES	3,663.70	160.69	135.69
S249	12	CARPET FLOOR COVERING	184.12	8.08	6.82
S231	13	RESUMTION OF CARPET	160.74	7.05	5.95
S209	14	WINDOW REPLACEMENT	3,612.00	158.42	133.78
TOTAL			81,962.15	3594.83	3035.64

TOTAL AREA BEFORE RENOVATION	22.80	m2
TOTAL NUMBER OF EQUIPEMENT	27.00	U
WC	6.00	U
LAVABO	6.00	U
URINIAL	2.00	U
VMC	1.00	U
LIGHTING	12.00	U

*Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator*



The services diagram shows all the works with percentage participation in their phases. On the basis of the conclusions reached, diagrams were created in which the unit prices are shown based on the square meter as well as the equipment unit in the reconstruction process

## BUILDING 073

### Contracts

**B1568-** Technical studies, site facilities, removal and demolition work, plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.

**S233-** CCF installation for ventilation extraction sanitary.

### Area

Renovated area is 40.80 m<sup>2</sup>. In this area are included S-101 ; S-104 , S-102 ; S-022.

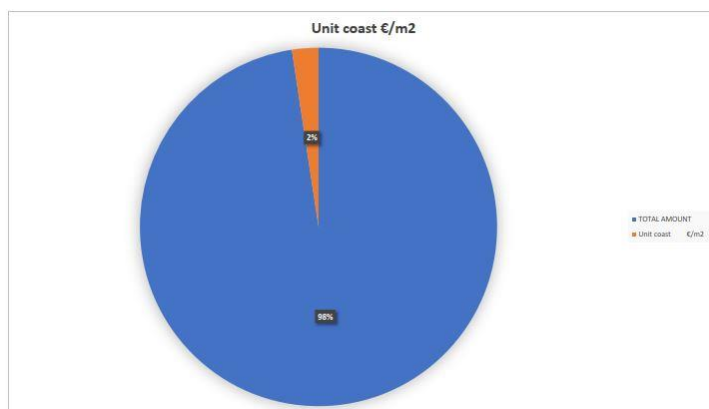
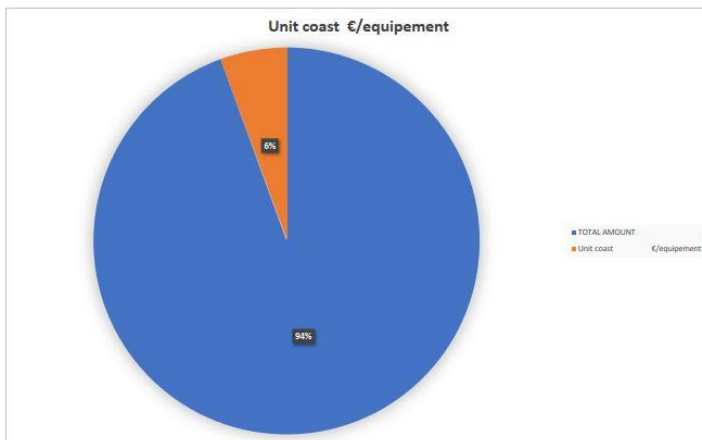
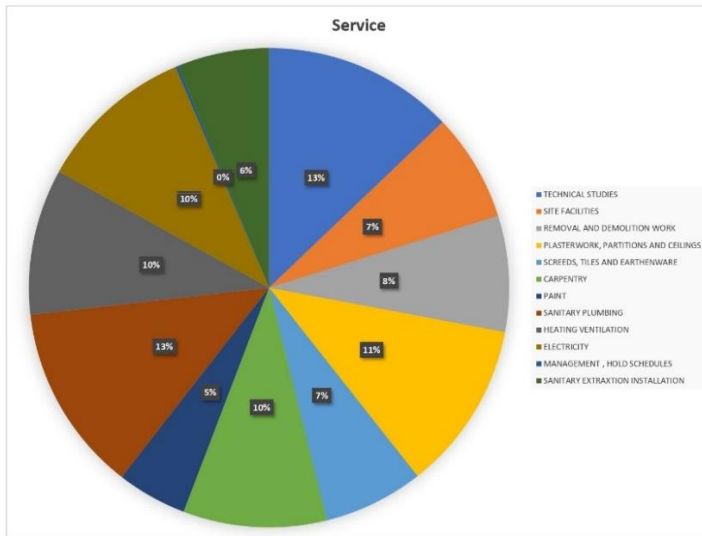


BUILDING 0073					
Type of object	Offices				
Date	Buildings constructed in 1968				
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/équipement
B1568/00	1	TECHNICAL STUDIES	8,081.00	198.06	475.35
B1568/00	2	SITE FACILITIES	4,581.60	112.29	269.51
B1568/00	3	REMOVAL AND DEMOLITION WORK	4,916.00	120.49	289.18
B1568/00	4	PLASTERWORK, PARTITIONS AND CEILINGS	7,174.39	175.84	422.02
B1568/00	5	SCREEDS, TILES AND EARTHENWARE	4,233.29	103.76	249.02
B1568/00	6	CARPENTRY	6,075.80	148.92	357.40
B1568/00	7	PAINT	2,964.00	72.65	174.35
B1568/00	8	SANITARY PLUMBING	7,971.48	195.38	468.91
B1568/00	9	HEATING VENTILATION	6,193.91	151.81	364.35
B1568/00	10	ELECTRICITY	6,651.05	163.02	391.24
B1568/00	11	MANAGEMENT , HOLD SCHEDULES	129.60	3.18	7.62
S233	12	SANITARY EXTRACTION INSTALLATION	3,871.00	94.88	227.71
TOTAL			62,843.12	1,540.27	3,696.65

TOTAL AREA BEFORE RENOVATION	40.80	m2
TOTAL NUMBER OF EQUIPEMENT	17.00	U
WC	2.00	U
LAVABO	2.00	U
URINIAL	1.00	U
RADIATOR	1.00	U
VMC	1.00	U
LIGHTING	10.00	U

Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator



The services diagram shows all the works with percentage participation in their phases. On the basis of the conclusions reached, diagrams were created in which the unit prices are shown based on the square meter as well as the equipment unit in the reconstruction process

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**Contracts**

**B1568-** *Technical studies, site facilities, removal and demoliten work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.*

**B1570-** *Soil asbestos removal, flexible floor covering + earthenware work in regulated hours.*

**Y213-** *Removal of electrical equipment, multi-core bales.*

**Y213-** *Renovation electricity bathrooms- health electricity renovation works.*

**S213-** *Removal of sanit electrical equipment -removal of sanitary electrical equipment.*

**S236-** *Sanitary water-provisional domestic water supply.*

**S213-** *Sanitaries electricity renovation bathroom electricity renovation study, health renovation study.*

**S236-** *Tank reassembling ec dhw tank.*

**S213-** *Electricity financial amendment bathroom electricity financial amendment 251, financial amendment to the UG102 case. Sanitary renovation building 251.*

**S249-** *Repainting - Realization of various coating and floor painting at 251/R-205.*

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**Area**

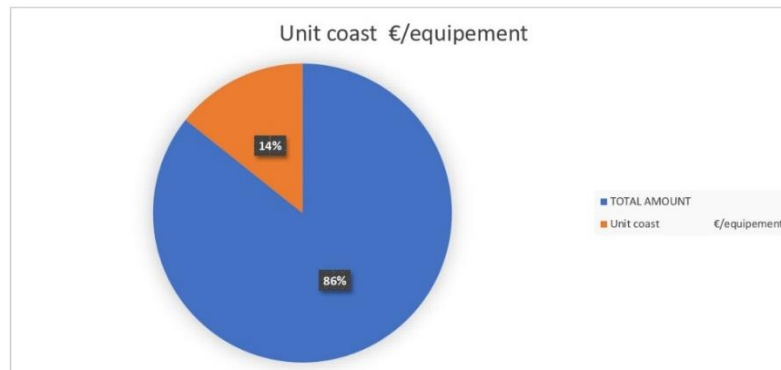
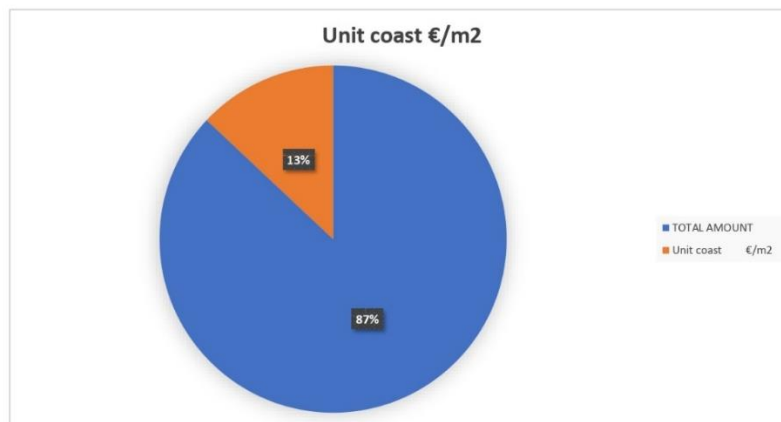
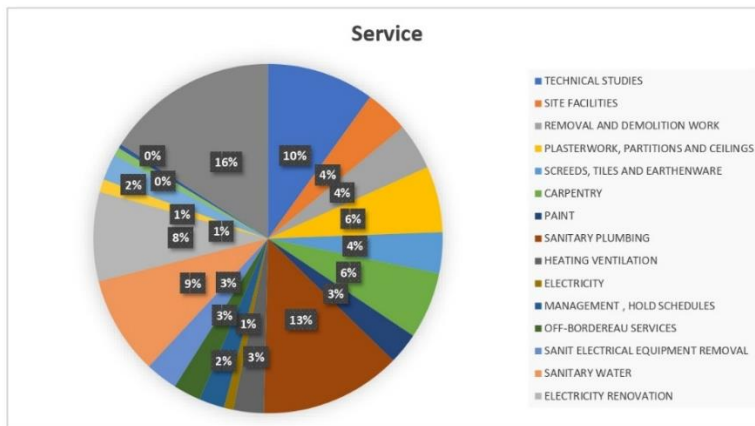
Renovated area is 6.70m<sup>2</sup>. In this area are included R-103 ; R-104 .





BUILDING 0251					
Type of object					
Date					
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/equipment
B1568	1	TECHNICAL STUDIES	6,330.20	944.81	1055.03
B1568	2	SITE FACILITIES	2,570.40	383.64	428.40
B1568	3	REMOVAL AND DEMOLITION WORK	2,739.68	408.91	456.61
B1568	4	PLASTERWORK, PARTITIONS AND CEILINGS	3,889.57	360.12	648.26
B1568	5	SCREEDS, TILES AND EARTHENWARE	2,412.78	360.12	402.13
B1568	6	CARPENTRY	3,930.67	586.67	655.11
B1568	7	PAINT	1,849.33	276.02	308.22
B1568	8	SANITARY PLUMBING	8,324.67	1242.49	1387.45
B1568	9	HEATING VENTILATION	1,792.94	267.60	298.82
B1568	10	ELECTRICITY	552.25	82.43	92.04
B1568	11	MANAGEMENT , HOLD SCHEDULES	1,490.40	222.45	248.40
B1568	12	OFF-BORDEREAU SERVICES	1,622.58	242.18	270.43
S213	13	SANIT ELECTRICAL EQUIPMENT REMOVAL	1,900.00	283.58	316.67
S236	14	SANITARY WATER	5,802.00	865.97	865.97
S213	15	ELECTRICITY RENOVATION	5,250.00	783.58	875.00
S236	16	TANK DOMESTIC WATER	746.00	111.34	124.33
S213	17	AMENDMENT OF SANITA ELECTRICITY	1,552.00	231.64	258.67
S249	18	REPAINTING	476.74	71.16	79.46
Y213	19	RENOVATION OF ELECTRICITY SANITARIES	250.00	37.31	41.67
Y213	20	ELETRONIC EQUIPMNET REMOWAL	11.00	1.64	1.83
B1570	21	REMOVAL FOR ASBESTOS FLOORS	10,121.00	1510.60	1686.83
TOTAL			63,614.21	9494.66	10602.37
TOTAL AREA BEFORE RENOVATION			6.70	m2	
TOTAL NUMBER OF EQUIPEMENT			6.00	U	
WC			2.00	U	
LAVABO			2.00	U	
URINIAL			1.00	U	
VMC			1.00	U	

Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.



*The services diagram shows all the works with percentage participation in their phases. On the basis of the conclusions reached, diagrams were created in which the unit prices are shown based on the square meter as well as the equipment unit in the reconstruction process.*

## BUILDING190

### Contracts

**B1568-** *Technical studies, site facilities, removal and demolition work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.*

**Y213-** *Electrocal installation of toilets works 003- general*

**S213-** *Dismantling of bathrooms 1 001-dismantling of bathrooms*

**2002-** *Electrical installation of the toilets works*

**B1569-** *Sanitary asbestos removal*

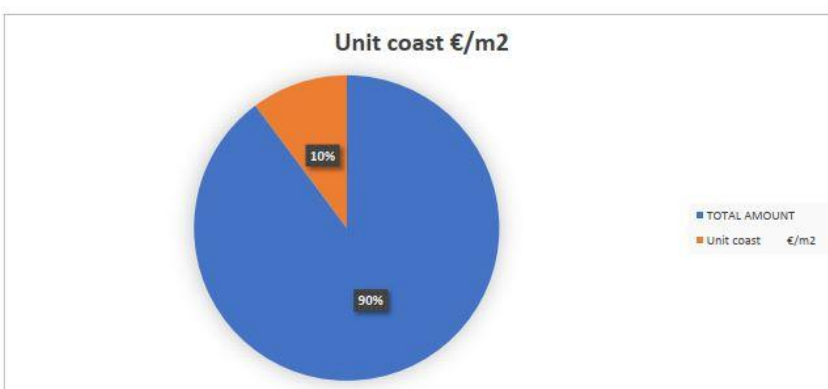
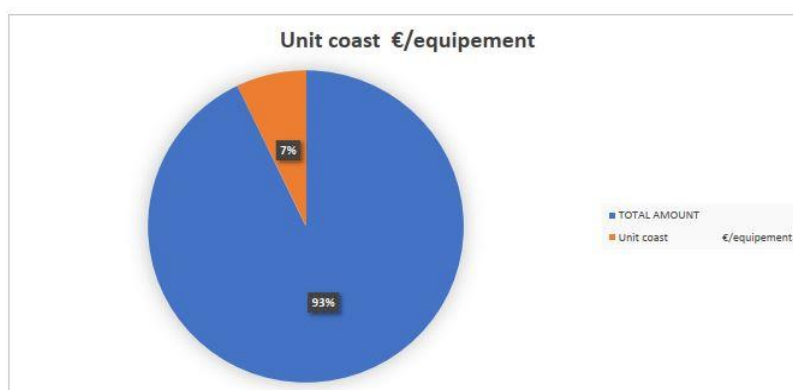
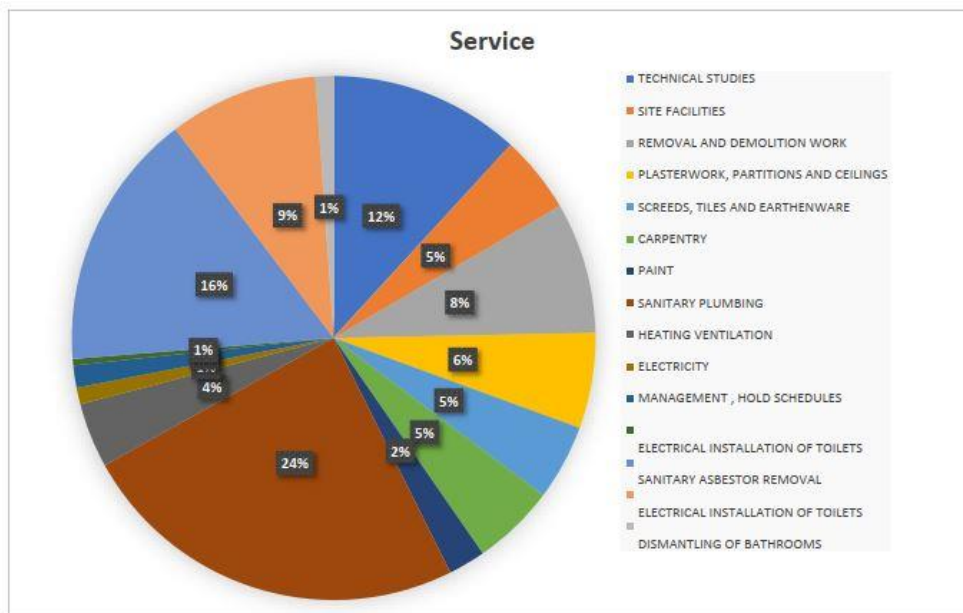


### Area

Renovated area is 8.80 m<sup>2</sup>. In this area are included R-101 ; R-102 .

BUILDING 0190					
Type of object	Workshop				
Date	Building constructed in 1969				
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/équipement
B1568	1	TECHNICAL STUDIES	6,330.20	719.34	486.94
B1568	2	SITE FACILITIES	2,570.40	292.09	197.72
B1568	3	REMOVAL AND DEMOLITION WORK	4,340.43	493.23	333.88
B1568	4	PLASTERWORK, PARTITIONS AND CEILINGS	3,162.64	359.39	243.28
B1568	5	SCREEDS, TILES AND EARTHENWARE	2,500.07	284.10	192.31
B1568	6	CARPENTRY	2,744.58	311.88	211.12
B1568	7	PAINT	1,225.49	139.26	94.27
B1568	8	SANITARY PLUMBING	13,023.47	1479.94	1001.81
B1568	9	HEATING VENTILATION	2,147.47	244.03	165.19
B1568	10	ELECTRICITY	552.25	62.76	42.48
B1568	11	MANAGEMENT , HOLD SCHEDULES	734.40	83.45	56.49
Y213	12	ELECTRICAL INSTALLATION OF TOILETS	210.00	23.86	16.15
B1569	13	SANITARY ASBESTOS REMOVAL	8,554.00	972.05	658.00
S213	14	ELECTRICAL INSTALLATION OF TOILETS	4,940.00	561.36	2470.00
S213	15	DISMANTLING OF BATHROOMS	602.00	68.41	46.31
TOTAL			53,637.40	6095.16	4125.95
TOTAL AREA BEFORE RENOVATION			8.80	m2	
TOTAL NUMBER OF EQUIPEMENT			13.00	U	
WC			2.00	U	
LAVABO			3.00	U	
URINIAL			2.00	U	
VMC			1.00	U	
LIGHTING			5.00	U	

*Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.*



The services diagram shows all the works with percentage participation in their phases. On the basis of the conclusions reached, diagrams were created in which the unit prices are shown based on the square meter as well as the equipment unit in the reconstruction process

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### Contracts

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**B1568-** *Technical studies, site facilities, removal and demoliten work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.*

**B1569-** *Sanitary asbestos removal*

**S242-** *The quantities are greater than what is requested, the final quantities will be reviewed against meter Sawing and coring work according to specifications*

**B1569-** *Sanitary asbestos removal , vinyl floors, tiles and skirting boards*

### BUILDING 0112



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### Area

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Renovated area is 26.60 m<sup>2</sup>. In this area are included R-105; R-102 ; 1-405 ; 1-403 ; 1-105 ; 2-105 .





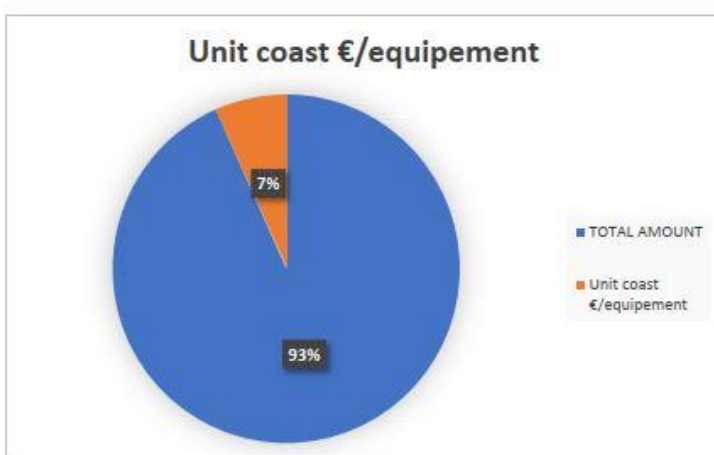
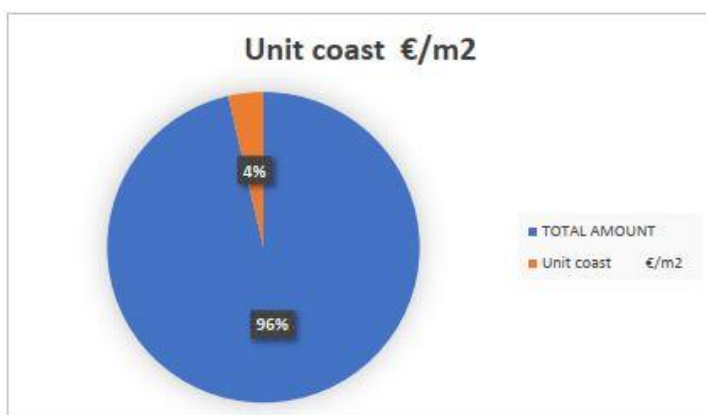
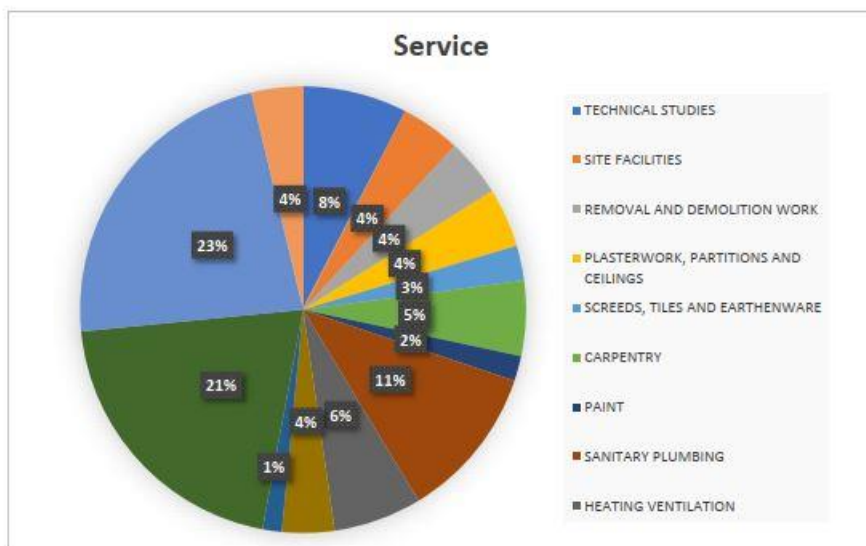
BUILDING 0112					
Type of object	Office laboratories				
Date	Building constructed in 1970				
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/équipement
B1568	1	TECHNICAL STUDIES	8,002.74	300.85	571.62
B1568	2	SITE FACILITIES	4,581.60	172.24	327.26
B1568	3	REMOVAL AND DEMOLITION WORK	4,419.86	166.16	315.70
B1568	4	PLASTERWORK, PARTITIONS AND CEILINGS	4,532.80	170.41	323.77
B1568	5	SCREEDS, TILES AND EARTHENWARE	2,675.03	100.57	191.07
B1568	6	CARPENTRY	5,748.36	216.10	410.60
B1568	7	PAINT	1,910.54	71.82	136.47
B1568	8	SANITARY PLUMBING	11,811.13	444.03	843.65
B1568	9	HEATING VENTILATION	6,768.40	254.45	483.46
B1568	10	ELECTRICITY	4,007.01	150.64	286.22
B1568	11	MANAGEMENT , HOLD SCHEDULES	1,468.80	55.22	104.91
B1569	12	SANITARY ASBESTOS REMOVAL	21,690.00	815.41	1549.29
B1569	13	SANITARY ASBESTOS REMOVAL	24,118.00	906.69	1722.71
S242	14	SAWING AND CORING	3,954.92	148.68	282.49
TOTAL			105,689.19	3973.28	7549.23

TOTAL AREA BEFORE RENOVATION	26.60	m2
TOTAL NUMBER OF EQUIPEMENT	14.00	U
WC	2.00	U
LAVABO	2.00	U
URINIAL	1.00	U
WC HANDICAPE	1.00	U
LAVABO HANDICAPE	1.00	U
RADIATOR	2.00	U
VMC	1.00	U
LIGHTING	4.00	U

Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.





*Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.*

## Contracts

**B1568-** *Technical studies, site facilities, removal and demolition work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.*

**Y213-** *Electrical sanitary renovation*

## Area

Renovated area is 14.90 m<sup>2</sup>. In this area are included R-101 ; R-102 .

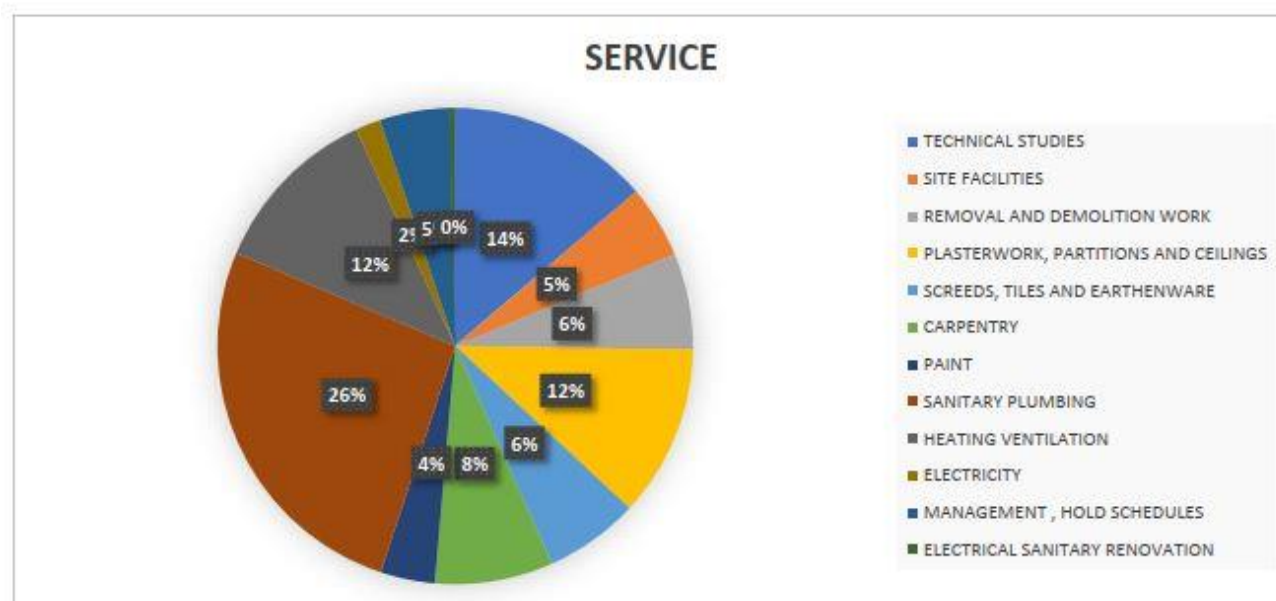
## BUILDING 0037



BUILDING 0037					
Type of object	Offices laboratories				
Date	Buildings constructed in 1973				
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/équipement
B1568	1	TECHNICAL STUDIES	7,166.47	480.97	597.21
B1568	2	SITE FACILITIES	2,570.40	172.51	214.20
B1568	3	REMOVAL AND DEMOLITION WORK	3,392.66	227.70	282.72
B1568	4	PLASTERWORK, PARTITIONS AND CEILINGS	6,074.49	407.68	506.21
B1568	5	SCREEDS, TILES AND EARTHENWARE	3,349.62	224.81	279.14
B1568	6	CARPENTRY	4,182.72	280.72	348.56
B1568	7	PAINT	1,925.09	129.20	160.42
B1568	8	SANITARY PLUMBING	13,690.24	918.81	1140.85
B1568	9	HEATING VENTILATION	6,127.00	411.21	510.58
B1568	10	ELECTRICITY	891.33	59.82	74.28
B1568	11	MANAGEMENT , HOLD SCHEDULES	2,482.40	166.60	206.87
Y213	12	ELECTRICAL SANITARY RENOVATION	184.12	12.36	15.34
TOTAL			52,036.54	3492.39	291.03

TOTAL AREA BEFORE RENOVATION	14.90	m2
TOTAL NUMBER OF EQUIPEMENT	12.00	U
WC	3.00	U
LAVABO	4.00	U
URINIAL	3.00	U
VMC	1.00	U
RADIATOR	1.00	U

*Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.*



*Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.*



*Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.*

## Contracts

**B1568-** *Technical studies, site facilities, removal and demoliten work , plasterwork, partitions and ceilings, screeds, tiles and earthenware, carpentry, paint, sanitary plumbing, heating ventilation, electricity, management, hold schedules description are given with its prices in contract B1568.*

**Y213-** *Electrical sanitary renovation*

## Area

Renovated area is 15.10 <sup>2</sup>. In this area are included S-101 ; S-102 .

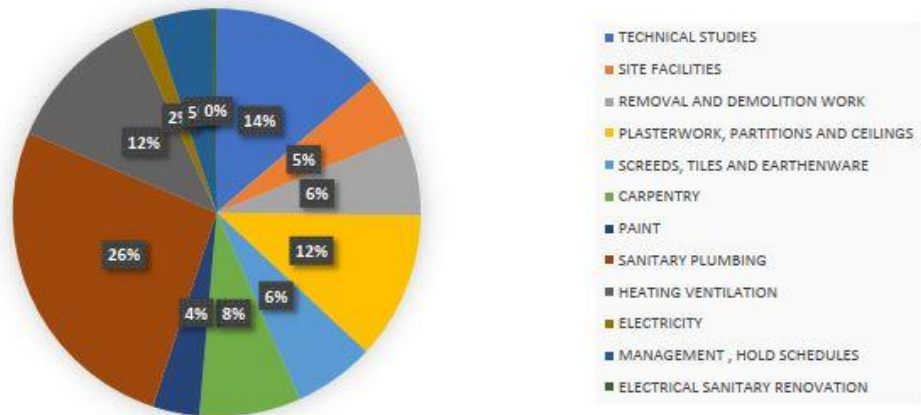
## BUILDING 0113



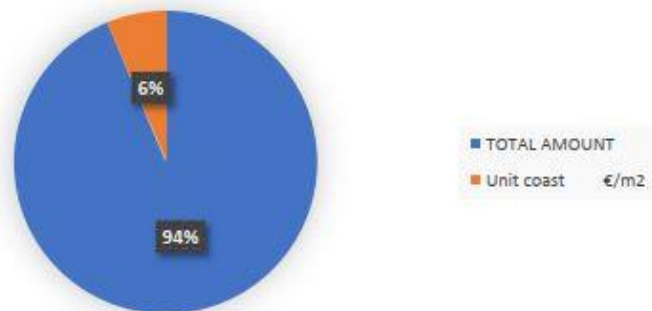
BUILDING 0037					
Type of object	Offices laboratories				
Date	Buildings constructed in 1973				
Number of contract	Number	DESCRIPTION OF THE WORK	TOTAL AMOUNT	Unit coast €/m2	Unit coast €/équipement
B1568	1	TECHNICAL STUDIES	7,166.47	480.97	597.21
B1568	2	SITE FACILITIES	2,570.40	172.51	214.20
B1568	3	REMOVAL AND DEMOLITION WORK	3,392.66	227.70	282.72
B1568	4	PLASTERWORK, PARTITIONS AND CEILINGS	6,074.49	407.68	506.21
B1568	5	SCREEDS, TILES AND EARTHENWARE	3,349.62	224.81	279.14
B1568	6	CARPENTRY	4,182.72	280.72	348.56
B1568	7	PAINT	1,925.09	129.20	160.42
B1568	8	SANITARY PLUMBING	13,690.24	918.81	1140.85
B1568	9	HEATING VENTILATION	6,127.00	411.21	510.58
B1568	10	ELECTRICITY	891.33	59.82	74.28
B1568	11	MANAGEMENT , HOLD SCHEDULES	2,482.40	166.60	206.87
Y213	12	ELECTRICAL SANITARY RENOVATION	184.12	12.36	15.34
TOTAL			52,036.54	3492.39	291.03

TOTAL AREA BEFORE RENOVATION	14.90	m2
TOTAL NUMBER OF EQUIPEMENT	12.00	U
WC	3.00	U
LAVABO	4.00	U
URINIAL	3.00	U
VMC	1.00	U
RADIATOR	1.00	U

## SERVICE



## Unit coast €/m2



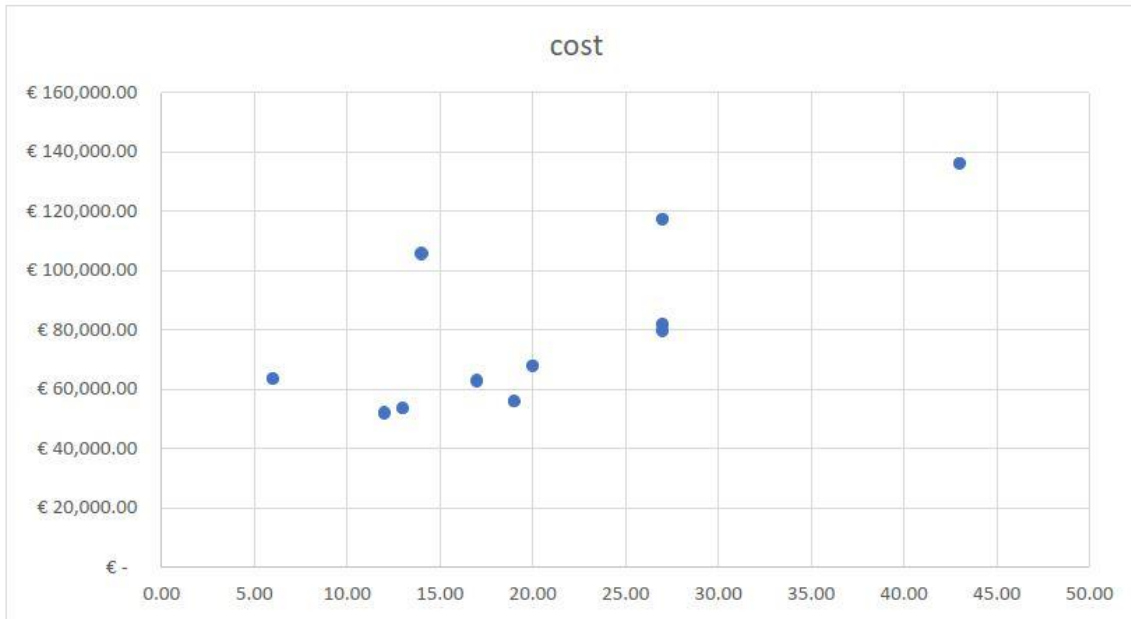


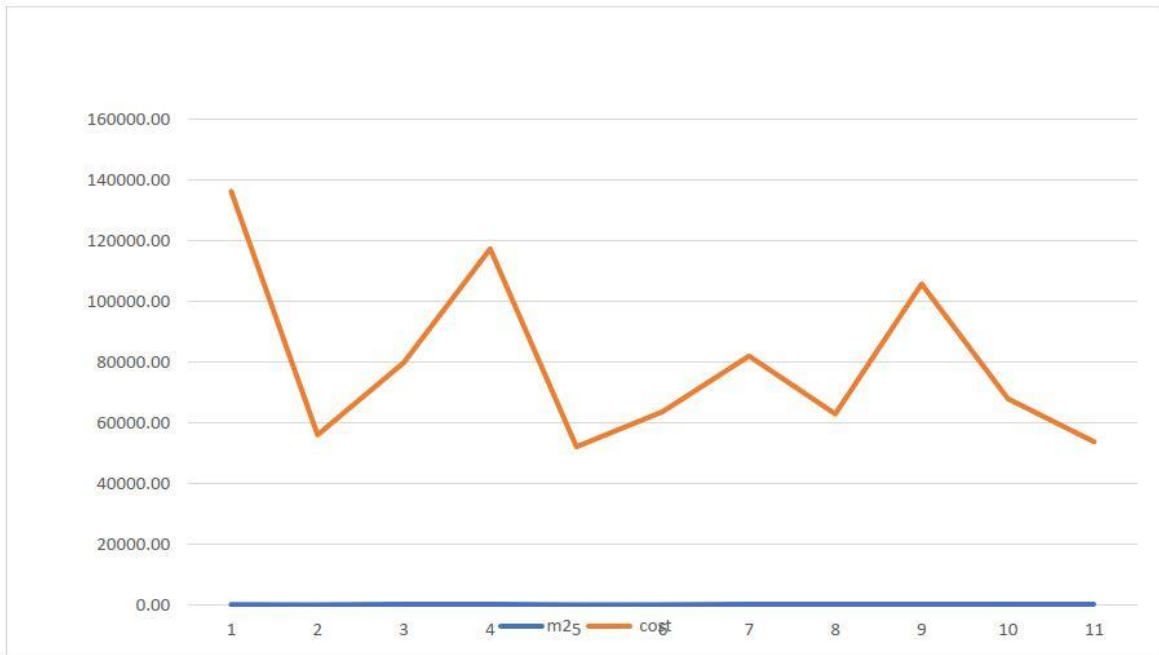


*Tables showing all the services and needed number of equipment stipulated in the contracts by the contractor and CERNA as the initiator.*

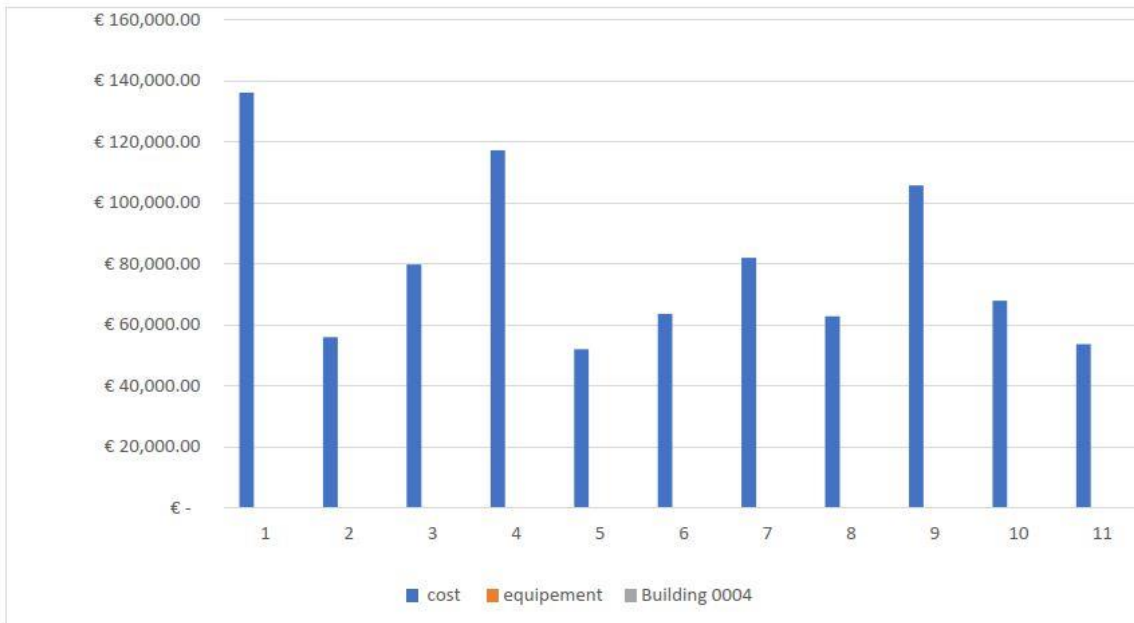
## CONCLUSION

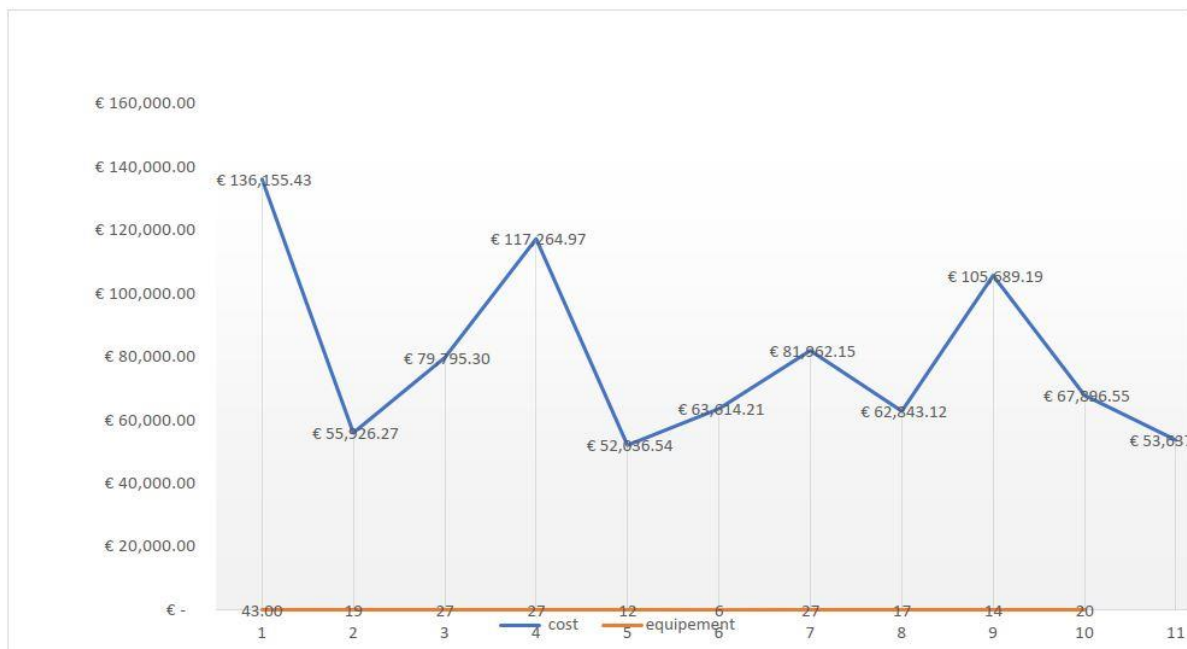
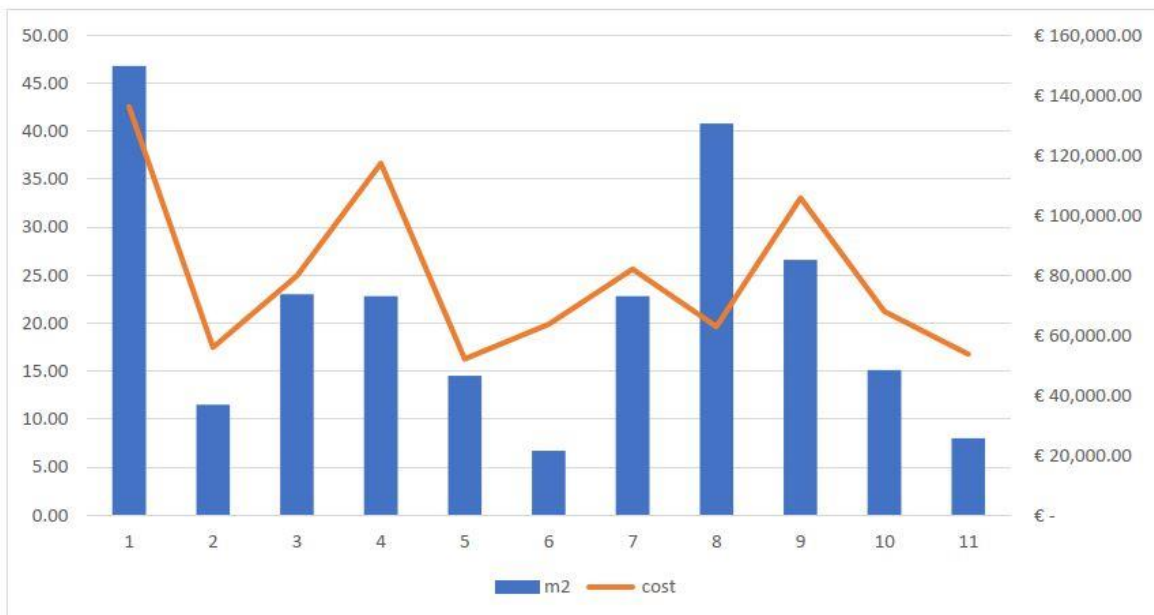
Based on the conducted research, as a conclusion, we can present the following diagrams, which show the dependence of the price and the square meter, as well as the price and adequate equipment.





§







SCE

Site and Civil Engineering

## FINAL REPORT

August .2022 year

Aldijana Hodzic

## Project task

In order to adequately select and divide the contract, the entire contract was divided into separate mini-parts. The procedure consisted of process phases.

In the first, the division into parts was made.

In the second, the formation of a folder containing individual parts that correspond to video recordings was made.

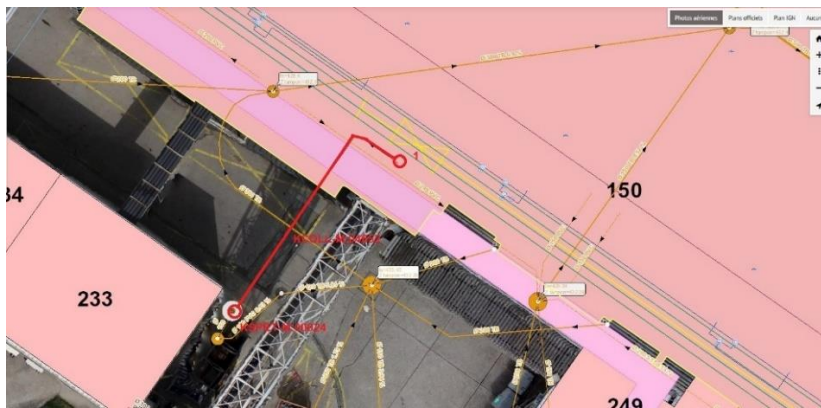
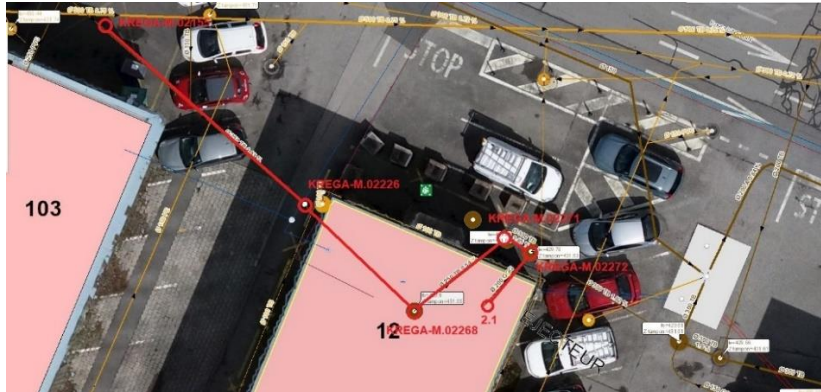
The Excel file contains all the data of the separate contract as well as the corresponding link on the IDMS portal.

### ECHELLE D'URGENCE ET DE GRAVITE

RISQUE/GRAVITE	EXEMPLES
Risque le plus grave <b>1</b>	Effondrement total Fontis en surface Arrêt de l'écoulement (risque d'inondation)
Risque très important (défauts pouvant évoluer très rapidement) <b>2</b>	Effondrement partiel Déboîtement ou casse avec arrivée de sable : entraînement de terrain Affaissement de tuyaux avec arrivée de sable Obstruction importante réduisant la capacité d'écoulement Vides de l'encaissant Tout ce qui entraîne des infiltrations de terrain
Risque important pouvant évoluer <b>3</b>	Fissures, cassures, emboîtements défectueux avec légère infiltration ou sans infiltration Perforation Racines, joints pendants, obstructions Erosion, corrosion (H2S ou industrielle) Obstruction partielle : béton, contrepenne importante, ...
Risque potentiel <b>4</b>	Fissures apparemment non évolutives Défauts de profil, cunette de regard de visite Joints sortis, branchements pénétrants Petites obstructions : racinelles, légers dépôts Infiltration d'eaux parasites (sans entraînement de terrain)
Risque modéré <b>5</b>	Emboîtement douteux Aménagement de regard de visite Aménagement divers Signes de vétusté générale sans point particulier Poinçonnements Petits défauts de profil Création ou mise à niveau de regards de visite Aménagement de liaison collecteur / branchement
Sans gravité <b>6</b>	Défauts de détail apparemment non évolutifs



## BATIMENT 12



DFS (G:) > Departments > SMB > Groups > SE > SAM (ready for migration) > SCE-SAM CE > 03\_Fichiers\_Nominatifs > Alejandro MARTINEZ SELLES > \_Consolidation > VRD > ITV > BAT 12 - 150

Name	Date modified	Type	Size
Documents	8/19/2022 10:33 AM	File folder	
Videos	6/7/2022 11:41 AM	File folder	
2205VA2147 MEYRIN CERN	6/7/2022 11:41 AM	Microsoft Excel C...	1 KB
2205VA2147 MEYRIN CERN	6/7/2022 11:41 AM	PDF Document	342 KB
B12	6/7/2022 11:41 AM	JPG File	371 KB
B150	6/7/2022 11:41 AM	JPG File	317 KB

- 1
- 2
- 3
- 4
- 5
- 6



FILES LOCATED IN  
DOCUMENTS

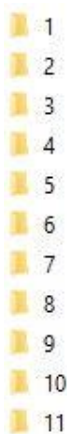
Files are organised like this one.

## BATIMENT 54



In folder 15 and 16 are only uploaded pdf files from the reason that I could't find videos who are matching with pictures from report.

## BATIMENT 112



Documents are separated in 11 folders with appropriate contents.

## BATIMENT 129

DFS (G:) > Departments > SMB > Groups > SE > SAM (ready for migration) > SCE-SAM CE > 03\_Fichiers\_Nominatifs > Alejandro MARTINEZ SELLES > \_Consolidation > VRD > ITV > BAT 129

Name	Date modified	Type	Size
Documents	8/19/2022 11:42 AM	File folder	
Videos	4/6/2022 3:52 PM	File folder	
2111VA1924 BAT129 CERN	12/5/2021 3:13 PM	Microsoft Excel C...	1 KB
2111VA1924 BAT129 CERN	12/5/2021 3:13 PM	Text Document	2 KB
2111VA1924 BAT129 CERN	12/5/2021 3:13 PM	XML Document	5 KB
2111VA1924BAT129CERN	12/5/2021 3:13 PM	PDF Document	228 KB
AutoRun	12/5/2021 3:13 PM	Application	18 KB
AutoRun	12/5/2021 3:13 PM	Setup Information	1 KB



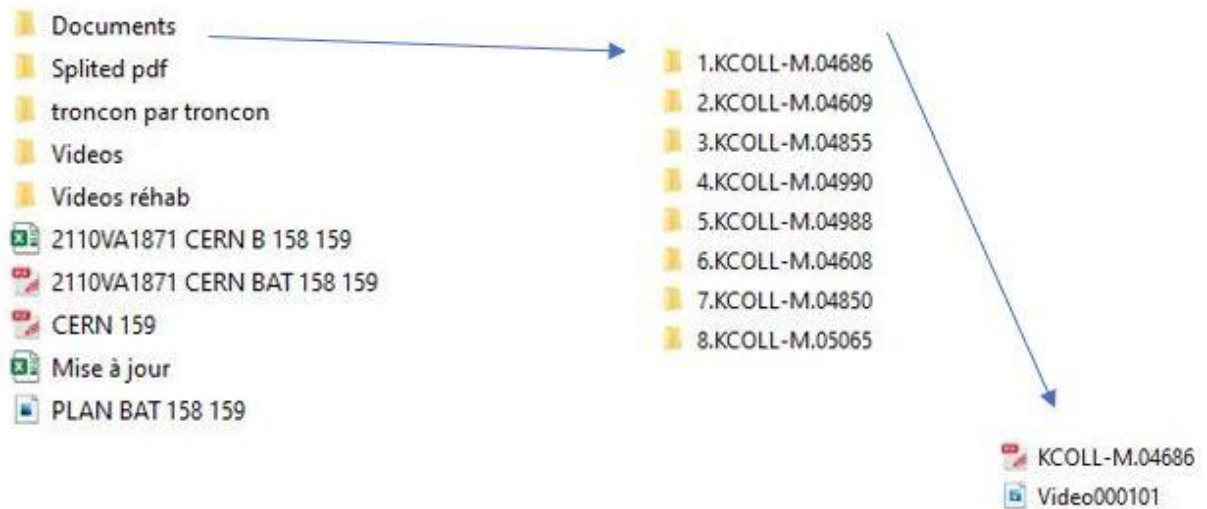
Video000101



Video000102

On the same link are posted two videos and pdf .

## BATIMENT 159

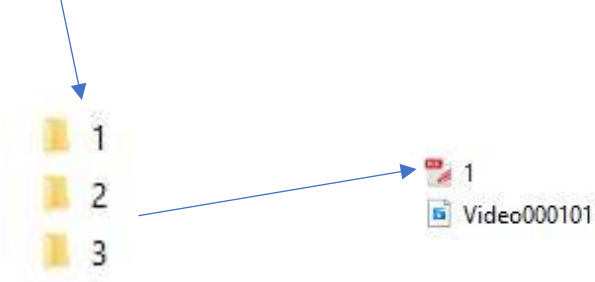




## BATIMENT 161

DFS (G:) > Departments > SMB > Groups > SE > SAM (ready for migration) > SCE-SAM CE > 03\_Fichiers\_Nominatifs > Alejandro MARTINEZ SELLES > \_Consolidation > VRD > ITV > Bat 161

Name	Date modified	Type	Size
Documents	8/11/2022 3:09 PM	File folder	
splited pdf	8/8/2022 11:34 AM	File folder	
Videos	5/3/2022 10:30 AM	File folder	
2203VA2059 CERN 161	3/11/2022 4:50 PM	Microsoft Excel C...	1 KB
2203VA2059 CERN 161	3/11/2022 4:50 PM	PDF Document	224 KB
2203VA2059 CERN 161	3/11/2022 4:50 PM	Text Document	3 KB
2203VA2059 CERN 161	3/11/2022 4:50 PM	XML Document	10 KB
AutoRun	3/11/2022 4:50 PM	Application	18 KB
AutoRun	3/11/2022 4:50 PM	Setup Information	1 KB



## BATIMENT 275



DFS (G:) > Departments > SMB > Groups > SE > SAM (ready for migration) > SCE-SAM CE > 03\_Fichiers\_Nominatifs > Alejandro MARTINEZ SELLES > \_Consolidation > VRD > ITV > BAT 275 > 2108VA1784 CERN B275

Name	Date modified	Type	Size
Documents	8/19/2022 2:22 PM	File folder	
Videos	4/6/2022 3:52 PM	File folder	
2108VA1784 CERN B275	9/14/2021 7:04 PM	PDF Document	2,169 KB
2108VA1784 CERN B275	9/14/2021 7:04 PM	Text Document	14 KB
2108VA1784 CERN B275	9/14/2021 7:04 PM	XML Document	48 KB
AutoRun	9/14/2021 7:04 PM	Application	18 KB
AutoRun	9/14/2021 7:04 PM	Setup Information	1 KB

1.KCOLL-M.03247
2. KCOLL-M.03245
3.KCOLL-M.03285
4.KCOLL-M.03325
5.KCOLL-M.03327
6.KCOLL-M.03329
7.KCOLL-M.03330
8.KCOLL-M.03326
9.KCOLL-M.03286
10.KCOLL-M.03249
11.KCOLL-M.00338
12.KCOLL-M.03411
13.KCOLL-M.03168
14. KCOLL-M.08966
15.KCOLL-M.03108
16.KCOLL-M.03057
17.KCOLL-M.03410
18.KREGA-M.01126 vers
19.KCOLL-M.03408
First two pages and last two
Tronçon n° 18

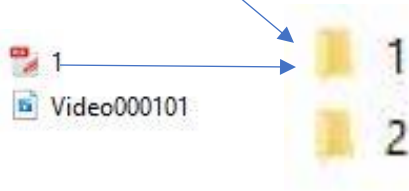
KCOLL-M.03247
Video000101

## BATIMENT 501

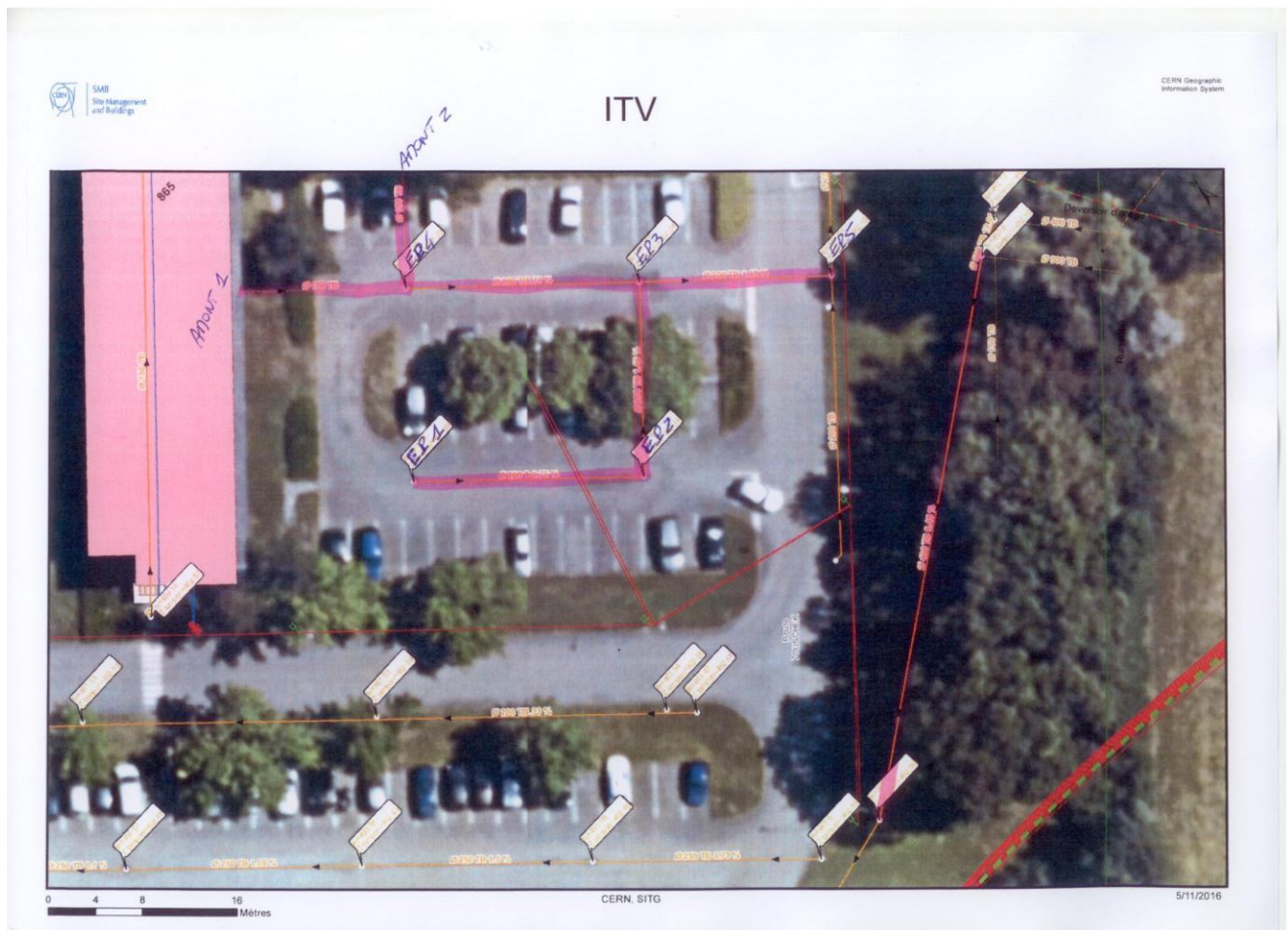


DFS (G:) > Departments > SMB > Groups > SE > SAM (ready for migration) > SCE-SAM CE > 03\_Fichiers\_Nominatifs > Alejandro MARTINEZ SELLES > \_Consolidation > VRD > ITV > Bat 501

Name	Date modified	Type	Size
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Videos	4/6/2022 3:52 PM	File folder	
2111VA1904 CERN BAT 501	11/10/2021 1:34 PM	PDF Document	819 KB
Capture	8/19/2022 2:33 PM	JPG File	303 KB
SCHEMA DE PRINCIPE	11/10/2021 1:34 PM	PDF Document	1,146 KB

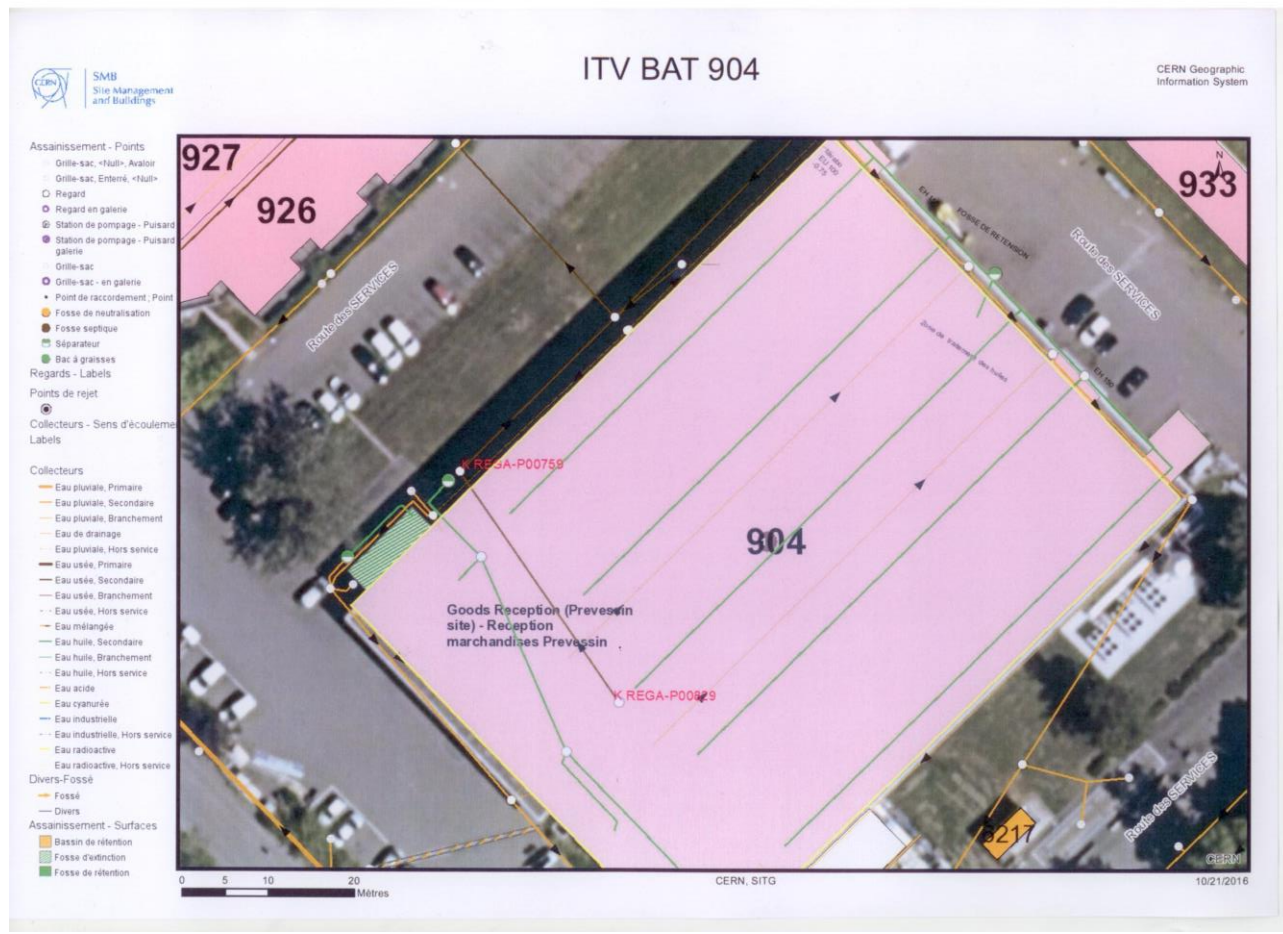


## BATIMENT 865



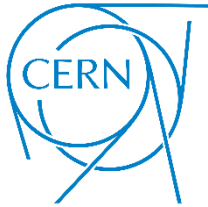


## BATIMENT 904



At the end of work, excel sheet is organised as is shown in next picture.

REGARD_DEPART	REGARD_ARRIVE	COLLECTEUR	AMHE_INSPECTION	EDMS_RAPPORT	EDMS_VIDEO	ETAT_EQUIPEMENT	Réparation à prévoir
KGRLL-M-00098	KREGA-M-01559	KCOLL-M-04328	2021	<a href="https://edms.chem.ch/document/2771126/">https://edms.chem.ch/document/2771126/</a>	<a href="https://edms.chem.ch/document/2771126/">https://edms.chem.ch/document/2771126/</a>	1	
KGRLL-M-00546	KREGA-M-01789	KCOLL-M-04408	2021	<a href="https://edms.chem.ch/document/2771481/">https://edms.chem.ch/document/2771481/</a>	<a href="https://edms.chem.ch/document/2771481/">https://edms.chem.ch/document/2771481/</a>	0	
KGRLL-M-00953	KREGA-M-01789	KCOLL-M-04409	2021	<a href="https://edms.chem.ch/document/2771531/">https://edms.chem.ch/document/2771531/</a>	<a href="https://edms.chem.ch/document/2771531/">https://edms.chem.ch/document/2771531/</a>	0	
KREGA-M-01789	KREGA-M-01789	KCOLL-M-04453	2021	<a href="https://edms.chem.ch/document/2771537/">https://edms.chem.ch/document/2771537/</a>	<a href="https://edms.chem.ch/document/2771537/">https://edms.chem.ch/document/2771537/</a>	1	
KGRLL-M-01026	KREGA-M-01789	KCOLL-M-04499	2021	<a href="https://edms.chem.ch/document/2771529/">https://edms.chem.ch/document/2771529/</a>	<a href="https://edms.chem.ch/document/2771529/">https://edms.chem.ch/document/2771529/</a>	0	
FP2 vers KGRLL-M-01878	KREGA-M-01878 vers FP2	KCOLL-M-04089	2021	<a href="https://edms.chem.ch/document/2771684/">https://edms.chem.ch/document/2771684/</a>	<a href="https://edms.chem.ch/document/2771684/">https://edms.chem.ch/document/2771684/</a>	0	
FP3 vers KGRLL-M-00953	KGRLL-M-00953 vers FP3	KCOLL-M-04408	2021	<a href="https://edms.chem.ch/document/2771717/">https://edms.chem.ch/document/2771717/</a>	<a href="https://edms.chem.ch/document/2771717/">https://edms.chem.ch/document/2771717/</a>	2	
KREGA-M-01787	KREGA-M-01787	KCOLL-M-04850	2021	<a href="https://edms.chem.ch/document/2771733/">https://edms.chem.ch/document/2771733/</a>	<a href="https://edms.chem.ch/document/2771733/">https://edms.chem.ch/document/2771733/</a>	4	
KREGA-M-01878 vers	KREGA-M-01878 vers	KCOLL-M-05063	2021	<a href="https://edms.chem.ch/document/2771737/">https://edms.chem.ch/document/2771737/</a>	<a href="https://edms.chem.ch/document/2771737/">https://edms.chem.ch/document/2771737/</a>	3	
KREGA-M-01094	KREGA-M-01093	KCOLL-M-03247	2021	<a href="https://edms.chem.ch/document/2771204/">https://edms.chem.ch/document/2771204/</a>	<a href="https://edms.chem.ch/document/2771204/">https://edms.chem.ch/document/2771204/</a>	4	
KREGA-M-01093 vers	KREGA-M-01093 vers	KCOLL-M-03245	2021	<a href="https://edms.chem.ch/document/2771212/">https://edms.chem.ch/document/2771212/</a>	<a href="https://edms.chem.ch/document/2771212/">https://edms.chem.ch/document/2771212/</a>	0	
KGRLL-M-00774 vers	KGRLL-M-00774 vers	KCOLL-M-03285	2021	<a href="https://edms.chem.ch/document/2771214/">https://edms.chem.ch/document/2771214/</a>	<a href="https://edms.chem.ch/document/2771214/">https://edms.chem.ch/document/2771214/</a>	0	
KREGA-M-01120 vers	KREGA-M-01120 vers	KCOLL-M-03323	2021	<a href="https://edms.chem.ch/document/2771271/">https://edms.chem.ch/document/2771271/</a>	<a href="https://edms.chem.ch/document/2771271/">https://edms.chem.ch/document/2771271/</a>	0	
INCONU vers KREGA-M-01121	KREGA-M-01121 vers INCONU	KCOLL-M-03330	2021	<a href="https://edms.chem.ch/document/2771284/">https://edms.chem.ch/document/2771284/</a>	<a href="https://edms.chem.ch/document/2771284/">https://edms.chem.ch/document/2771284/</a>	6	
INCONU vers KREGA-M-01121	KREGA-M-01121 vers INCONU	KCOLL-M-03326	2021	<a href="https://edms.chem.ch/document/2771291/">https://edms.chem.ch/document/2771291/</a>	<a href="https://edms.chem.ch/document/2771291/">https://edms.chem.ch/document/2771291/</a>	4	
KREGA-M-03338 vers	KREGA-M-01121 vers	KCOLL-M-03386	2021	<a href="https://edms.chem.ch/document/2771298/">https://edms.chem.ch/document/2771298/</a>	<a href="https://edms.chem.ch/document/2771298/">https://edms.chem.ch/document/2771298/</a>	6	
INCONU vers KREGA-M-01124	KREGA-M-01124 vers INCONU	KCOLL-M-03349	2021	<a href="https://edms.chem.ch/document/2771296/">https://edms.chem.ch/document/2771296/</a>	<a href="https://edms.chem.ch/document/2771296/">https://edms.chem.ch/document/2771296/</a>	5	
KGRLL-M-00731 vers	KGRLL-M-00741 vers	KCOLL-M-00338	2021	<a href="https://edms.chem.ch/document/2771301/">https://edms.chem.ch/document/2771301/</a>	<a href="https://edms.chem.ch/document/2771301/">https://edms.chem.ch/document/2771301/</a>	0	
KGRLL-M-00741 vers	KGRLL-M-00741 vers	KCOLL-M-03411	2021	<a href="https://edms.chem.ch/document/2771306/">https://edms.chem.ch/document/2771306/</a>	<a href="https://edms.chem.ch/document/2771306/">https://edms.chem.ch/document/2771306/</a>	0	
INCONU vers KREGA-M-01069	KREGA-M-01069 vers INCONU	KCOLL-M-03368	2021	<a href="https://edms.chem.ch/document/2771317/">https://edms.chem.ch/document/2771317/</a>	<a href="https://edms.chem.ch/document/2771317/">https://edms.chem.ch/document/2771317/</a>	0	
KREGA-M-03503 vers	KREGA-M-01069 vers	KCOLL-M-08966	2021	<a href="https://edms.chem.ch/document/2771318/">https://edms.chem.ch/document/2771318/</a>	<a href="https://edms.chem.ch/document/2771318/">https://edms.chem.ch/document/2771318/</a>	0	
KREGA-M-01044 vers	KREGA-M-01044 vers	KCOLL-M-03308	2021	<a href="https://edms.chem.ch/document/2771324/">https://edms.chem.ch/document/2771324/</a>	<a href="https://edms.chem.ch/document/2771324/">https://edms.chem.ch/document/2771324/</a>	1	
KGRLL-M-00873 vers	KREGA-M-01042 vers	KCOLL-M-02003	2021	<a href="https://edms.chem.ch/document/2771330/">https://edms.chem.ch/document/2771330/</a>	<a href="https://edms.chem.ch/document/2771330/">https://edms.chem.ch/document/2771330/</a>	0	
KGRLL-M-00740 vers	KREGA-M-01126 vers	KCOLL-M-03410	2021	<a href="https://edms.chem.ch/document/2771332/">https://edms.chem.ch/document/2771332/</a>	<a href="https://edms.chem.ch/document/2771332/">https://edms.chem.ch/document/2771332/</a>	0	
KREGA-M-01126 vers	KREGA-M-01128 vers	Thompson n° 18					
KREGA-M-01134 vers EP8	KREGA-M-01134 vers EP8	KCOLL-M-03406	2021	<a href="https://edms.chem.ch/document/2771337/">https://edms.chem.ch/document/2771337/</a>	<a href="https://edms.chem.ch/document/2771337/">https://edms.chem.ch/document/2771337/</a>	5	
KREGA-M-03340 vers	KREGA-M-03332 vers	KCOLL-M-08470	2021	<a href="https://edms.chem.ch/document/2771349/">https://edms.chem.ch/document/2771349/</a>	<a href="https://edms.chem.ch/document/2771349/">https://edms.chem.ch/document/2771349/</a>	0	
KREGA-M-03342 vers	KREGA-M-03340 vers	KCOLL-M-08469	2022	<a href="https://edms.chem.ch/document/2771440/">https://edms.chem.ch/document/2771440/</a>	<a href="https://edms.chem.ch/document/2771440/">https://edms.chem.ch/document/2771440/</a>	0	
KREGA-M-03343 vers	KREGA-M-03342 vers	KCOLL-M-08472	2022	<a href="https://edms.chem.ch/document/2771454/">https://edms.chem.ch/document/2771454/</a>	<a href="https://edms.chem.ch/document/2771454/">https://edms.chem.ch/document/2771454/</a>	3	
KREGA-M-03343 vers	KREGA-M-03343 vers	KCOLL-M-08466	2022	<a href="https://edms.chem.ch/document/2771461/">https://edms.chem.ch/document/2771461/</a>	<a href="https://edms.chem.ch/document/2771461/">https://edms.chem.ch/document/2771461/</a>	0	
KREGA-M-03350 vers	KREGA-M-03350 vers	KCOLL-M-08313	2022	<a href="https://edms.chem.ch/document/2771477/">https://edms.chem.ch/document/2771477/</a>	<a href="https://edms.chem.ch/document/2771477/">https://edms.chem.ch/document/2771477/</a>	3	
KREGA-M-03336 vers	KREGA-M-03336 vers	KCOLL-M-08462	2022	<a href="https://edms.chem.ch/document/2771481/">https://edms.chem.ch/document/2771481/</a>	<a href="https://edms.chem.ch/document/2771481/">https://edms.chem.ch/document/2771481/</a>	4	
KREGA-M-03333 vers	KREGA-M-03332 vers	KCOLL-M-08497	2022	<a href="https://edms.chem.ch/document/2771489/">https://edms.chem.ch/document/2771489/</a>	<a href="https://edms.chem.ch/document/2771489/">https://edms.chem.ch/document/2771489/</a>	0	
KREGA-M-03312 vers	KREGA-M-03138 vers	KCOLL-M-08484	2022	<a href="https://edms.chem.ch/document/2771501/">https://edms.chem.ch/document/2771501/</a>	<a href="https://edms.chem.ch/document/2771501/">https://edms.chem.ch/document/2771501/</a>	0	
KGRLL-M-01671 vers	KGRLL-M-01671 vers	KCOLL-M-08357	2022	<a href="https://edms.chem.ch/document/2771903/">https://edms.chem.ch/document/2771903/</a>	<a href="https://edms.chem.ch/document/2771903/">https://edms.chem.ch/document/2771903/</a>	0	
KGRLL-M-01677 vers	KGRLL-M-01671 vers	KCOLL-M-08356	2022	<a href="https://edms.chem.ch/document/2771915/">https://edms.chem.ch/document/2771915/</a>	<a href="https://edms.chem.ch/document/2771915/">https://edms.chem.ch/document/2771915/</a>	0	
KGRLL-M-01663 vers	KGRLL-M-01663 vers	KCOLL-M-08307	2022	<a href="https://edms.chem.ch/document/2771917/">https://edms.chem.ch/document/2771917/</a>	<a href="https://edms.chem.ch/document/2771917/">https://edms.chem.ch/document/2771917/</a>	0	
KGRLL-M-01668 vers	KGRLL-M-01665 vers	KCOLL-M-08317	2022	<a href="https://edms.chem.ch/document/2771930/">https://edms.chem.ch/document/2771930/</a>	<a href="https://edms.chem.ch/document/2771930/">https://edms.chem.ch/document/2771930/</a>	0	
KGRLL-M-01630 vers	KGRLL-M-01665 vers	KCOLL-M-08450	2022	<a href="https://edms.chem.ch/document/2771943/">https://edms.chem.ch/document/2771943/</a>	<a href="https://edms.chem.ch/document/2771943/">https://edms.chem.ch/document/2771943/</a>	0	
KGRLL-M-01660 vers	KGRLL-M-01650 vers	KCOLL-M-08462	2022	<a href="https://edms.chem.ch/document/2771949/">https://edms.chem.ch/document/2771949/</a>	<a href="https://edms.chem.ch/document/2771949/">https://edms.chem.ch/document/2771949/</a>	0	
KGRLL-M-01793 vers	KGRLL-M-01793 vers	KCOLL-M-08763	2022	<a href="https://edms.chem.ch/document/2771958/">https://edms.chem.ch/document/2771958/</a>	<a href="https://edms.chem.ch/document/2771958/">https://edms.chem.ch/document/2771958/</a>	0	
KGRLL-M-01794 vers	KGRLL-M-01734 vers	KCOLL-M-08762	2022	<a href="https://edms.chem.ch/document/2771962/">https://edms.chem.ch/document/2771962/</a>	<a href="https://edms.chem.ch/document/2771962/">https://edms.chem.ch/document/2771962/</a>	0	
KREGA-M-03447 vers	KREGA-M-03447 vers	KCOLL-M-08760	2022	<a href="https://edms.chem.ch/document/2772846/">https://edms.chem.ch/document/2772846/</a>	<a href="https://edms.chem.ch/document/2772846/">https://edms.chem.ch/document/2772846/</a>	0	
KREGA-M-03447 vers	KREGA-M-03446 vers	KCOLL-M-08760	2022	<a href="https://edms.chem.ch/document/2772847/">https://edms.chem.ch/document/2772847/</a>	<a href="https://edms.chem.ch/document/2772847/">https://edms.chem.ch/document/2772847/</a>	0	
KREGA-M-03446 vers	KREGA-M-03446 vers	KCOLL-M-08757	2022	<a href="https://edms.chem.ch/document/2772846/">https://edms.chem.ch/document/2772846/</a>	<a href="https://edms.chem.ch/document/2772846/">https://edms.chem.ch/document/2772846/</a>	0	
KREGA-M-03438 vers	KREGA-M-03438 vers	KCOLL-M-08722	2022	<a href="https://edms.chem.ch/document/2772848/">https://edms.chem.ch/document/2772848/</a>	<a href="https://edms.chem.ch/document/2772848/">https://edms.chem.ch/document/2772848/</a>	0	
KGRLL-M-03433 vers	KREGA-M-03411 vers	KCOLL-M-08719	2022	<a href="https://edms.chem.ch/document/2772843/">https://edms.chem.ch/document/2772843/</a>	<a href="https://edms.chem.ch/document/2772843/">https://edms.chem.ch/document/2772843/</a>	0	
KGRLL-M-01731 vers	KREGA-M-03446 vers	KCOLL-M-08748	2022	<a href="https://edms.chem.ch/document/2772861/">https://edms.chem.ch/document/2772861/</a>	<a href="https://edms.chem.ch/document/2772861/">https://edms.chem.ch/document/2772861/</a>	0	
KGRLL-M-01724 vers	KGRLL-M-01732 vers	KCOLL-M-08749	2022	<a href="https://edms.chem.ch/document/2772869/">https://edms.chem.ch/document/2772869/</a>	<a href="https://edms.chem.ch/document/2772869/">https://edms.chem.ch/document/2772869/</a>	0	
KGRLL-M-01725 vers	KGRLL-M-01724 vers	KCOLL-M-08750	2022	<a href="https://edms.chem.ch/document/2772871/">https://edms.chem.ch/document/2772871/</a>	<a href="https://edms.chem.ch/document/2772871/">https://edms.chem.ch/document/2772871/</a>	0	
KGRLL-M-01726 vers	KGRLL-M-01731 vers	KCOLL-M-08751	2022	<a href="https://edms.chem.ch/document/2772872/">https://edms.chem.ch/document/2772872/</a>	<a href="https://edms.chem.ch/document/2772872/">https://edms.chem.ch/document/2772872/</a>	0	
KGRLL-M-01729 vers	KGRLL-M-01729 vers	KCOLL-M-08754	2022	<a href="https://edms.chem.ch/document/2772879/">https://edms.chem.ch/document/2772879/</a>	<a href="https://edms.chem.ch/document/2772879/">https://edms.chem.ch/document/2772879/</a>	0	
KGRLL-M-01713 vers	KREGA-M-03438 vers	KCOLL-M-08723	2022	<a href="https://edms.chem.ch/document/2772885/">https://edms.chem.ch/document/2772885/</a>	<a href="https://edms.chem.ch/document/2772885/">https://edms.chem.ch/document/2772885/</a>	0	
KREGA-M-03361 vers	KREGA-M-03424 vers	KCOLL-M-08670	2022	<a href="https://edms.chem.ch/document/2772883/">https://edms.chem.ch/document/2772883/</a>	<a href="https://edms.chem.ch/document/2772883/">https://edms.chem.ch/document/2772883/</a>	0	
KREGA-M-03364 vers	KGRLL-M-01646 vers	KCOLL-M-08477	2022	<a href="https://edms.chem.ch/document/2772113/">https://edms.chem.ch/document/2772113/</a>	<a href="https://edms.chem.ch/document/2772113/">https://edms.chem.ch/document/2772113/</a>	0	
KREGA-M-03361 vers	KREGA-M-03344 vers	KCOLL-M-08313	2022	<a href="https://edms.chem.ch/document/2772132/">https://edms.chem.ch/document/2772132/</a>	<a href="https://edms.chem.ch/document/2772132/">https://edms.chem.ch/document/2772132/</a>	0	
KGRLL-M-01648 vers	KGRLL-M-01648 vers	KCOLL-M-08443	2022	<a href="https://edms.chem.ch/document/2772406/">https://edms.chem.ch/document/2772406/</a>	<a href="https://edms.chem.ch/document/2772406/">https://edms.chem.ch/document/2772406/</a>	0	
KGRLL-M-01727 vers	KGRLL-M-01727 vers	KCOLL-M-08753	2022	<a href="https://edms.chem.ch/document/2772410/">https://edms.chem.ch/document/2772410/</a>	<a href="https://edms.chem.ch/document/2772410/">https://edms.chem.ch/document/2772410/</a>	0	
KGRLL-M-01727 vers	KGRLL-M-01727 vers	KCOLL-M-08752	2022	<a href="https://edms.chem.ch/document/2772412/">https://edms.chem.ch/document/2772412/</a>	<a href="https://edms.chem.ch/document/2772412/">https://edms.chem.ch/document/2772412/</a>	0	
KGRLL-M-01706 vers	KGRLL-M-01706 vers	KCOLL-M-08695	2022	<a href="https://edms.chem.ch/document/2772415/">https://edms.chem.ch/document/2772415/</a>	<a href="https://edms.chem.ch/document/2772415/">https://edms.chem.ch/document/2772415/</a>	0	
KGRLL-M-01706 vers	KGRLL-M-01706 vers	KCOLL-M-08696	2022	<a href="https://edms.chem.ch/document/2772415/">https://edms.chem.ch/document/2772415/</a>	<a href="https://edms.chem.ch/document/2772415/">https://edms.chem.ch/document/2772415/</a>	0	
KGRLL-M-01730 vers	KREGA-M-01646 vers	KCOLL-M-08748	2022	<a href="https://edms.chem.ch/document/2772423/">https://edms.chem.ch/document/2772423/</a>	<a href="https://edms.chem.ch/document/2772423/">https://edms.chem.ch/document/2772423/</a>	0	
KGRLL-M-01733 vers	KGRLL-M-01733 vers	KCOLL-M-08761	2022	<a href="https://edms.chem.ch/document/2772431/">https://edms.chem.ch/document/2772431/</a>	<a href="https://edms.chem.ch/document/2772431/">https://edms.chem.ch/document/2772431/</a>	0	
KGRLL-M-01735 vers	KGRLL-M-01738 vers	KCOLL-M-08764	2022	<a href="https://edms.chem.ch/document/2772430/">https://edms.chem.ch/document/2772430/</a>	<a href="https://edms.chem.ch/document/2772430/">https://edms.chem.ch/document/2772430/</a>	0	
KREGA-M-03377 vers	KREGA-M-03388 vers	KCOLL-M-08695	2022	<a href="https://edms.chem.ch/document/2772463/">https://edms.chem.ch/document/2772463/</a>	<a href="https://edms.chem.ch/document/2772463/">https://edms.chem.ch/document/2772463/</a>	0	
KREGA-M-03386 vers	KREGA-M-03386 vers	KCOLL-M-08576	2022	<a href="https://edms.chem.ch/document/2772467/">https://edms.chem.ch/document/2772467/</a>	<a href="https://edms.chem.ch/document/2772467/">https://edms.chem.ch/document/2772467/</a>	0	
KREGA-M-03400 vers	KREGA-M-03399 vers	KCOLL-M-08613	2022	<a href="https://edms.chem.ch/document/2772470/">https://edms.chem.ch/document/2772470/</a>	<a href="https://edms.chem.ch/document/2772470/">https://edms.chem.ch/document/2772470/</a>	0	
KREGA-M-03383 vers	KREGA-M-03400 vers	KCOLL-M-08572	2022	<a href="https://edms.chem.ch/document/2772471/">https://edms.chem.ch/document/2772471/</a>	<a href="https://edms.chem.ch/document/2772471/">https://edms.chem.ch/document/2772471/</a>	0	
KREGA-M-03395 vers	KREGA-M-03399 vers	KCOLL-M-08609	2022	<a href="https://edms.chem.ch/document/2772473/">https://edms.chem.ch/document/2772473/</a>	<a href="https://edms.chem.ch/document/2772473/">https://edms.chem.ch/document/2772473/</a>	0	
KREGA-M-03377 vers	KREGA-M-03377 vers	KCOLL-M-08354	2022	<a href="https://edms.chem.ch/document/2772489/">https://edms.chem.ch/document/2772489/</a>	<a href="https://edms.chem.ch/document/2772489/">https://edms.chem.ch/document/2772489/</a>	0	
KREGA-M-03336 vers	KREGA-M-03358 vers	KCOLL-M-08306	2022	<a href="https://edms.chem.ch/document/2772492/">https://edms.chem.ch/document/2772492/</a>	<a href="https://edms.chem.ch/document/2772492/">https://edms.chem.ch/document/2772492/</a>	0	
KREGA-M-03411 vers	KREGA-M-03358 vers	KCOLL-M-08609	2022	<a href="https://edms.chem.ch/document/2772493/">https://edms.chem.ch/document/2772493/</a>	<a href="https://edms.chem.ch/document/2772493/">https://edms.chem.ch/document/2772493/</a>	0	
KREGA-M-03336 vers	KREGA-M-03335 vers	KCOLL-M-08312	2022	<a href="https://edms.chem.ch/document/2772498/">https://edms.chem.ch/document/2772498/</a>	<a href="https://edms.chem.ch/document/2772498/">https://edms.chem.ch/document/2772498/</a>	0	
KREGA-M-03335 vers	KREGA-M-03335 vers	KCOLL-M-08461	2022	<a href="https://edms.chem.ch/document/2772499/">https://edms.chem.ch/document/2772499/</a>	<a href="https://edms.chem.ch/document/2772499/">https://edms.chem.ch/document/2772499/</a>	0	
KREGA-M-03337 vers	KREGA-M-03337 vers	KCOLL-M-08463	2022	<a href="https://edms.chem.ch/document/2772499/">https://edms.chem.ch/document/2772499/</a>	<a href="https://edms.chem.ch/document/2772499/">https://edms.chem.ch/document/2772499/</a>	0	
KGRLL-M-01645 vers	KGRLL-M-01645 vers	KCOLL-M-08438	2022	<a href="https://edms.chem.ch/document/2772491/">https://edms.chem.ch/document/2772491/</a>	<a href="https://edms.chem.ch/document/2772491/">https://edms.chem.ch/document/2772491/</a>	0	
KGRLL-M-01647 vers	KGRLL-M-01647 vers	KCOLL-M-08441	2022	<a href="https://edms.chem.ch/document/2772491/">https://edms.chem.ch/document/2772491/</a>	<a href="https://edms.chem.ch/document/2772491/">https://edms.chem.ch/document/2772491/</a>	0	
KGRLL-M-01631 vers	KGRLL-M-01631 vers	KCOLL-M-08338	2022	<a href="https://edms.chem.ch/document/2772499/">https://edms.chem.ch/document/2772499/</a>	<a href="https://edms.chem.ch/document/2772499/">https://edms.chem.ch/document/2772499/</a>	0	
KREGA-M-03379 vers	KREGA-M-03389 vers	KCOLL-M-08394	2022	<a href="https://edms.chem.ch/document/2772503/">https://edms.chem.ch/document/2772503/</a>	<a href="https://edms.chem.ch/document/2772503/">https://edms.chem.ch/document/2772503/</a>	0	
2 vers KREGA-M-02272							



SCE

Site and Civil Engineering

## FINAL REPORT

August .2022 year

Aldijana Hodzic

Collector	Starting manhole	Ending manhole	EDMS report	Page	Pages with pictures
KCOLL-M.00433	KREGA-M.00163	KREGA-M.00184	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	14	118 - 119
KCOLL-M.00352	KREGA-M.00150	KREGA-M.00163	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	15	120 -121
KCOLL-M.00012	KGRIL-M.00004	KREGA-M.00006	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	8	65 - 69
KCOLL-M.00010	KREGA-M.00006	KGRIL-M.00011	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	24	203-206
KCOLL-M.00043	KREGA-M.00021	KGRIL-M.00013	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	8	72 - 74
KCOLL-M.00045	KGRIL-M.00013	KREGA-M.00022	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	8	66-69
KCOLL-M.00044	KGRIL-M.00013	KREGA-M.00030	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	9	78-80
KCOLL-M.00046	KREGA-M.00022	KREGA-M.00023	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	8	70 - 74
KCOLL-M.00047	KREGA-M.00023	KREGA-M.00024	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	10	84 - 85
KCOLL-M.00059	KGRIL-M.00014	KREGA-M.00062	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	10	86 - 88
KCOLL-M.00028	KREGA-M.00011	KREGA-M.00014	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	10	81 - 83
KCOLL-M.00033	KREGA-M.00014	KREGA-M.00019	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	10	85-86
KCOLL-M.00054	KREGA-M.00016	KREGA-M.00017	<a href="https://edms.cern.ch/document/2260679/1">https://edms.cern.ch/document/2260679/1</a>	13	15-17
KCOLL-M.00130	KREGA-M.00029	KREGA-HL.00608	<a href="https://edms.cern.ch/document/2260679/1">https://edms.cern.ch/document/2260679/1</a>	2	4th - 9 th
KCOLL-M.00062	KREGA-M.00037	KREGA-M.00053	<a href="https://edms.cern.ch/document/1915237/1">https://edms.cern.ch/document/1915237/1</a>	8	60-66
KCOLL-M.00090	KREGA-M.00053	KREGA-HL.00608	<a href="https://edms.cern.ch/document/1915237/1">https://edms.cern.ch/document/1915237/1</a>	8	67-69
KCOLL-M.00512	KREGA-M.00210	KREGA-M.00197	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	12	99 - 102
KCOLL-M.00513	KREGA-M.00211	KREGA-M.00198	<a href="https://edms.cern.ch/document/1915237/1">https://edms.cern.ch/document/1915237/1</a>	9	75-77
KCOLL-M.00468	KREGA-M.00184	KREGA-M.00184B	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	14	116-117
KCOLL-M.00470	KREGA-M.00184	KREGA-M.00194	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	14	112-115
KCOLL-M.00433	KREGA-M.00163	KREGA-M.00184	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	14	117-119
KCOLL-M.00325	KREGA-M.00148	KREGA-M.00137	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	4	28-31
KCOLL-M.00307	KREGA-M.00139	KREGA-M.00131	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	5	37 - 41
KCOLL-M.00338	KREGA-M.00142	KREGA-M.00153	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	13	114-115
KCOLL-M.00406	KREGA-M.00153	KREGA-M.00177	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	13	111 - 113
KCOLL-M.00303	KREGA-M.00138	KREGA-M.00133	<a href="https://edms.cern.ch/document/1915237/1">https://edms.cern.ch/document/1915237/1</a>	6	43-47
KCOLL-M.00290	KREGA-M.00133	KREGA-M.00124	<a href="https://edms.cern.ch/document/1915237/1">https://edms.cern.ch/document/1915237/1</a>	6	48-50
KCOLL-M.00266	KREGA-M.00124	KREGA-M.00112	<a href="https://edms.cern.ch/document/1915237/1">https://edms.cern.ch/document/1915237/1</a>	5	35-36
KCOLL-M.00374	KREGA-M.00170	KREGA-M.00169	<a href="https://edms.cern.ch/document/1915237/1">https://edms.cern.ch/document/1915237/1</a>	11	92 - 95
KCOLL-M.00372	KREGA-M.00169	KREGA-M.00136	<a href="https://edms.cern.ch/document/1915237/1">https://edms.cern.ch/document/1915237/1</a>	11	89 - 92
KCOLL-M.00345	KREGA-M.00147	KREGA-M.00157	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	24	209 - 211
KCOLL-M.00321	KREGA-M.00147	KREGA-M.00127	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	24	206-209



KCOLL-M.00133	KREGA-M.00046	KREGA-M.00068	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	22 190-192
KCOLL-M.00197	KREGA-M.00068	KREGA-M.00098	<a href="https://edms.cern.ch/document/1915233/1">https://edms.cern.ch/document/1915233/1</a>	22 165-168
KCOLL-M.00642	KREGA-M.00258	KREGA-M.00236	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	16 127 - 129
KCOLL-M.00641	KREGA-M.00246	KREGA-M.00257	<a href="https://edms.cern.ch/document/1915237/1">https://edms.cern.ch/document/1915237/1</a>	12 97-99
KCOLL-M.00837	KREGA-M.00258	KREGA-M.00334	<a href="https://edms.cern.ch/document/1958932/1">https://edms.cern.ch/document/1958932/1</a>	17 130-134
KCOLL-M.00833	KREGA-M.00334	KREGA-M.00332	<a href="https://edms.cern.ch/document/2260688/1">https://edms.cern.ch/document/2260688/1</a>	2 4th -5