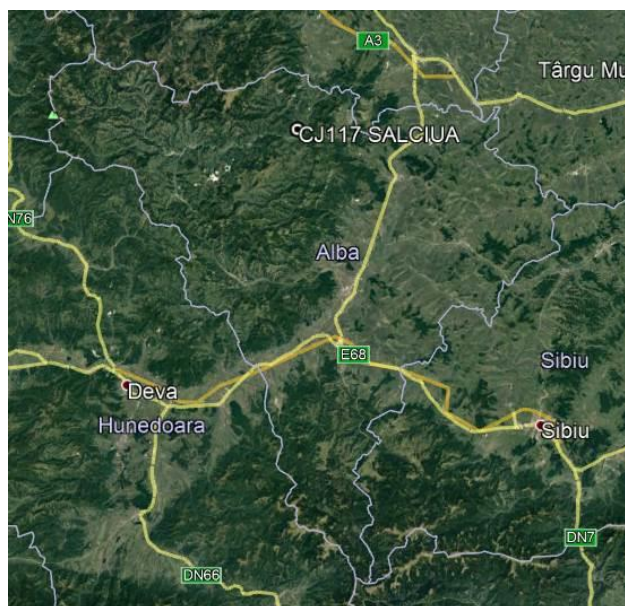




SITE SURVEY REPORT Ericsson

1. GENERAL INFORMATION

Site name:	SALCIUA
Site number (code):	CJ117
Site address (city;street;no.; building; entrance):	Com. Salciua Sat Salciua De Jos Extravilan Jud. Alba
Site area:	Alba
Site survey team:	ATS
Checked by:	Luca Valentin
Date of site survey:	06.02.2018
Type of Site (urban, rooftop):	Greenfield
Lesser:	-
Contact Person:	-



Other Remarks:	Cheile se iau de la sediul Ericsson din Sibiu. Nu se poate ajunge la site cu masina deloc. Drum impracticabil. Pentru detalii privind drumul de acces trebuie contactat viceprimarul. Persoana de contact pentru acest site nu exista. Acessul spre site se face din com. Salciua de Jos.
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2. ROOFTOP (Building information)

GPS coordinates:	N E
Building height:	m
Existent tripod:	Yes ☐ NO ☐
Total height:	m
Use of crane for materials transportation:	Yes ☐ NO ☒
Other Remarks:	



3. GREEN FIELD (Specific data information)

GPS coordinates:	N 46° 24' 53.7"		
	E 23° 25' 42.9"		
Tower:	Yes ☒ NO ☐		
Tower type:	☒ Heavy Cosmosite tower – 50m (or more) ☐ Polygonal Monopole – 30m (or more) ☐ Monopole lattice tower-30m ☐ Guyed tower on shelter-30m		
Antenna Metallic Structure:	New "H" Yes ☐ NO ☒ Upgrade existing "H" Yes ☐ NO ☒ Atypical Structure Yes ☐ NO ☒		
RRU Metallic Structure:	New RRU Support Yes ☐ NO ☒ Atypical Structure Yes ☐ NO ☒		
Mini - shelter require:	Yes ☐ NO ☒		
Mini – shelter frame standard adaptor solution:	Yes ☐ NO ☒		
In case Non Standard Mini-shelter frame solution, dimensions are requested:	N/A		
Non standard mini - shelter frame profile	N/A		
RRU to Antenna/Combiner Jumper length (type: DIN7/16 Male –N Male):	6x3m;		
Antenna to Combiner -> Jumper length (type: DIN7/16 Male – DIN7/16 Male):	N/A		
FO cable length between BB to RRU	6x5m		
DC cable length between PP to RRU	6x5m		
Type and length of DC power for RRU Cu 2x6 mm ² (L<30m):	Type Cu 2x6mm ² / 6x5m		
Type and length of DC power for RRU Cu 2X10 mm ² if needed(30m<L<60m):	-		
Type and length of DC power for RRU Cu 2X16 mm ² if needed(60m<L<90m):	-		
Type and length of DC power for RRU Cu 2X25 mm ² if needed(L>90m):	-		
Combo Box required:	Yes ☐ NO ☒ ; Length of cable: m		
Connection patch length from CB to RRU (FO&DC)	6x5m		
Outdoor CB existing breakers type	16A ☐ 25A ☐ Oth. ☐ 32A		
PDU existing breakers availability (63A in PP)	Yes ☐ NO ☒		
DC cable length from PP to new PDU	-		
PP Type / producer plus picture on the bottom	Sunlight		

4. EXISTING CONTRACT & CHANGES

Indoor space requires contract change	Yes ☐	No ☒	
Outdoor space requires contract change	Yes ☐	No ☒	
Cable routing requires contract change	Yes ☐	No ☒	
Power cabling requires contract change	Yes ☐	No ☒	
Indoor space requires studies & license change	Yes ☐	No ☒	
Outdoor space requires studies & license change	Yes ☐	No ☒	
Cable routing requires studies & license change	Yes ☐	No ☒	
Power cabling requires studies & license change	Yes ☐	No ☒	

Other	
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Remarks:	
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5. POWER SUPPLY INFORMATION

Power availability:	YES
Voltage-measurements (PLC display):	L1(V) - L2(V) - L3(V) -
Amperage-measurements (PLC display, without A/C):	I1(A) - I2(A) - I3(A) -
Amperage-measurements (PLC display, with A/C):	I1(A) - I2(A) - I3(A) -
Outdoor mini shelter: 32A available breaker in LDB (5x6 mm ² AC Cable)	N/A
1X16A available breakers in indoor Power System	NO
1X32A available breakers in indoor Power System	NO
2X63A available breakers in indoor Power System	Yes
Power counter exist:	Yes
Main AC board exist:	Yes
Breaker value in BMPT:	N/A
Surge arrestors existence:	Yes
Type and length of power connection cable for BBU	Cu 2x2.5mm ² - 2m
Type and length of power connection shielded cable Al 6X25 mm ² if needed:	-
Type and length of power connection shielded cable Al 6X35 mm ² if needed:	-
Type and length of AC power connection cable 5X6 mm ² for mini shelter if needed:	-
Type and length of DC power from PSU to PDU Al 2x35 mm ² if needed:	-
CB/PDU/2 Sections (if needed):	-
CB/PDU/3 Sections (if needed):	-
PDU indoor (if needed):	NO
Boards grounding - secured:	YES
Boards waterproofed:	YES

Other Remarks:	
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6. POWER PLANT and BATTERY INFORMATION

Number of units	Unit 1 ☒	Unit 2 ☐
Type	300A ☐ 600A ☐ Other ☒	300A ☐ 600A ☐ Other ☒
Nr./capacity[A] of rectifier modules	4/50A	
DC Load Amperage(displayed) [A]	-	
Battery capacity [Ah]	80Ah	
Battery type/number	Sunlight SP12-80/9	

Other Remarks:	
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7. AIR CONDITIONING INFORMATION

Temperature [°C]	Internal: -	External:-
Number of units	Unit 1 ☒	Unit 2 ☐
Type	Free Cooling ☐ Duct ☒ Split ☐	Free Cooling ☐ Duct ☐ Split ☐
Technical specifications from external unit label		
Cooling capacity [BTU]	9.000 ☐ 12.000 ☒ 18.000 ☐ 24.000 ☐ Other ☐	9.000 ☐ 12.000 ☐ 18.000 ☐ 24.000 ☐ Other ☐



Start meter	Compressor: - Evap. Fan:- Heather: -	Compressor: Evap. Fan: Heather:
Work time meter [h]	Compressor: - Evap. Fan: - Heather: -	Compressor: Evap. Fan: Heather:
Alarms outputs	Very high temp ☐ Very low temp ☐	Very high temp ☐ Very low temp ☐

Other Remarks:	
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8. NEW INSTALLATION INFORMATION

Common: number of buss with free holes	YES
Common: Available space on the existing cable tray	YES
Indoor equipment: Existing space for ILP mounting	N/A
Indoor equipment: Existing space for Radio Indoor equipment mounting	N/A
Indoor equipment: Existing space for Indoor Concentrator equipment mounting	N/A
Indoor equipment: Existing space for DC PDU mounting	YES
Indoor equipment: Available holes in FIMO	YES
Outdoor equipment: Existing space on the existing base frame for mini shelter mounting	N/A
Outdoor equipment: Existing outdoor transmission cabinet	N/A
Outdoor equipment: Existing space for outdoor Concentrator mounting (proposal)	N/A
Outdoor equipment: Existing space for RRU mounting (proposal)	YES

Other Remarks:	
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9. EXISTING TELECOM EQUIPMENT & INFRASTRUCTURE

a. General information

Equipment type:	Indoor ☒	Outdoor ☐	
Number of RF antennas:	3 Telekom, 3 Orange		
Number of MW links	7		
Nr. of existing RBS cabinets	0		
MW existing RL cabinet	Indoor ☒	Outdoor ☐	
Power cabinet exist (BBS):	Yes ☐	No ☒	
Existing cable ladder availability:	Yes ☒	No ☐	
Existing cable entry availability:	Yes ☒	No ☐	
Air condition existence & operation	Yes ☒	No ☐	
Grounding protection existence:	Yes ☒	No ☐	
Lightning protection existence:	Yes ☒	No ☐	
Installation of RF & IF cables requires special machinery (e.g. crane)	Yes ☐	No ☒	



b. Existing Masts

	Height	Length	poles/mast	Cell_id on the mast	installation readiness
1					
2					
3					
4					

c. Existing Antenna Poles

	Height	Length	Cell_id	Corner/Tower	Obstacles	installation readiness
1	50.0m	1x3m	RF U/G		No	Yes
2	50.0m	1x3m	RF V/H		No	Yes
3	50.0m	1x3m	RF W/I		No	Yes

d. Existing MW Poles

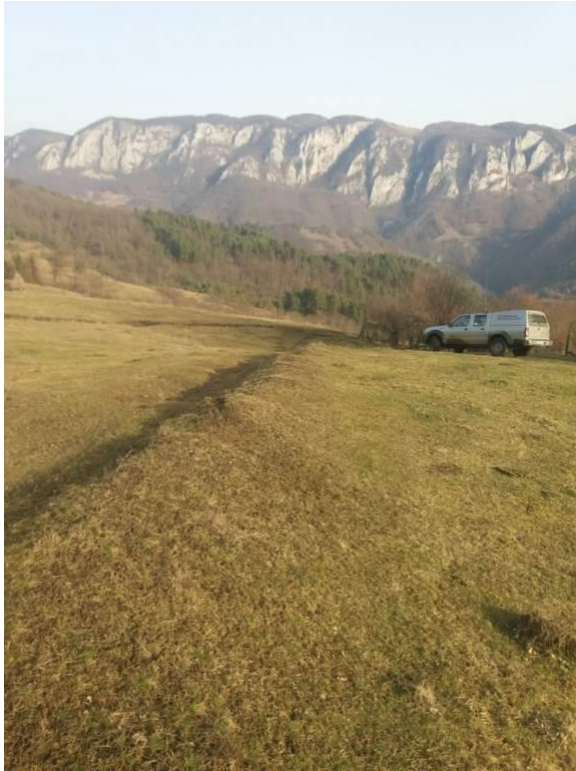
	Height	Length	Hop id	Corner/Tower	Far end	Obstacles	installation readiness
1							
2							
3							
4							
5							
6							

Remarks:

10. ANALYSIS LOADING DATA

LOAD TYPE	DIAMETER (mm)	POSITION (m)	NUMBER
M/W LINK			
M/W LINK			
M/W LINK			
M/W LINK			
M/W LINK			
M/W LINK			

**11. EXISTING LAYOUT(S):
GENERAL VIEW OF STRUCTURE**

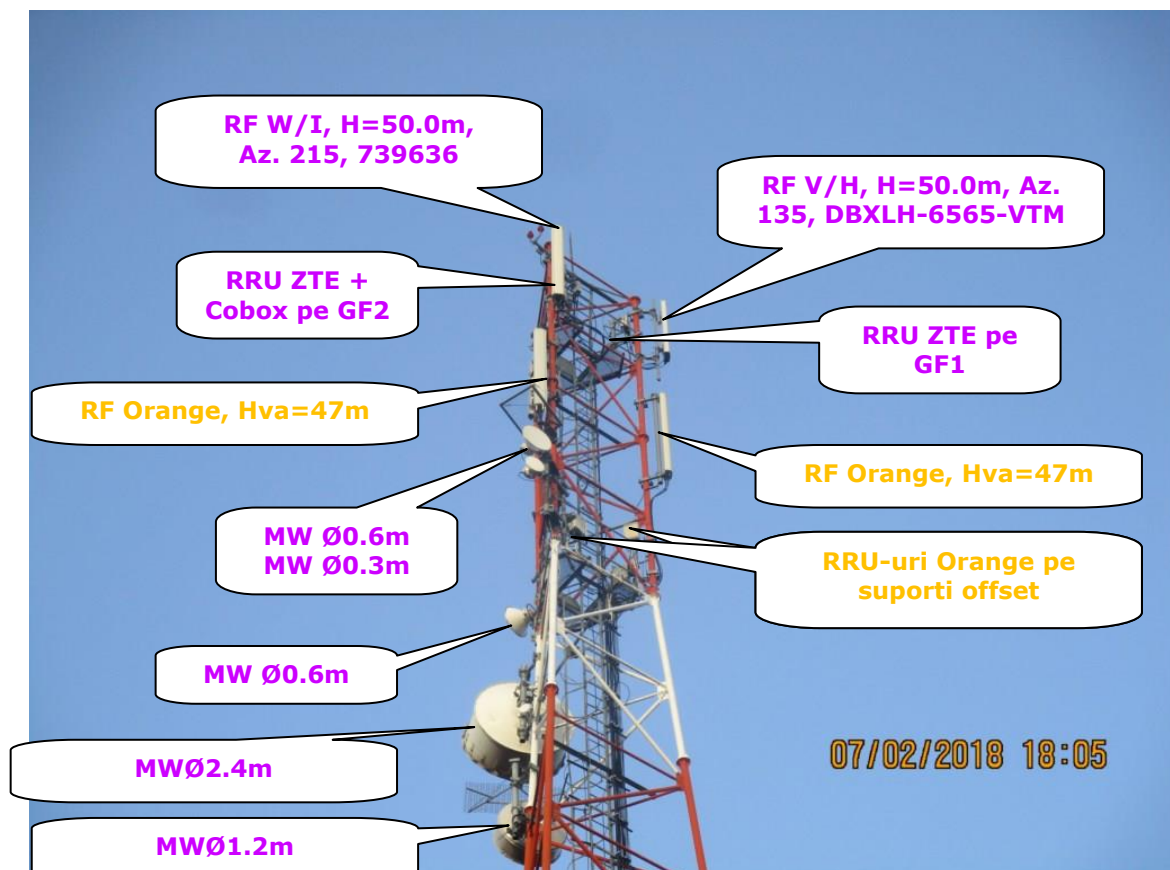
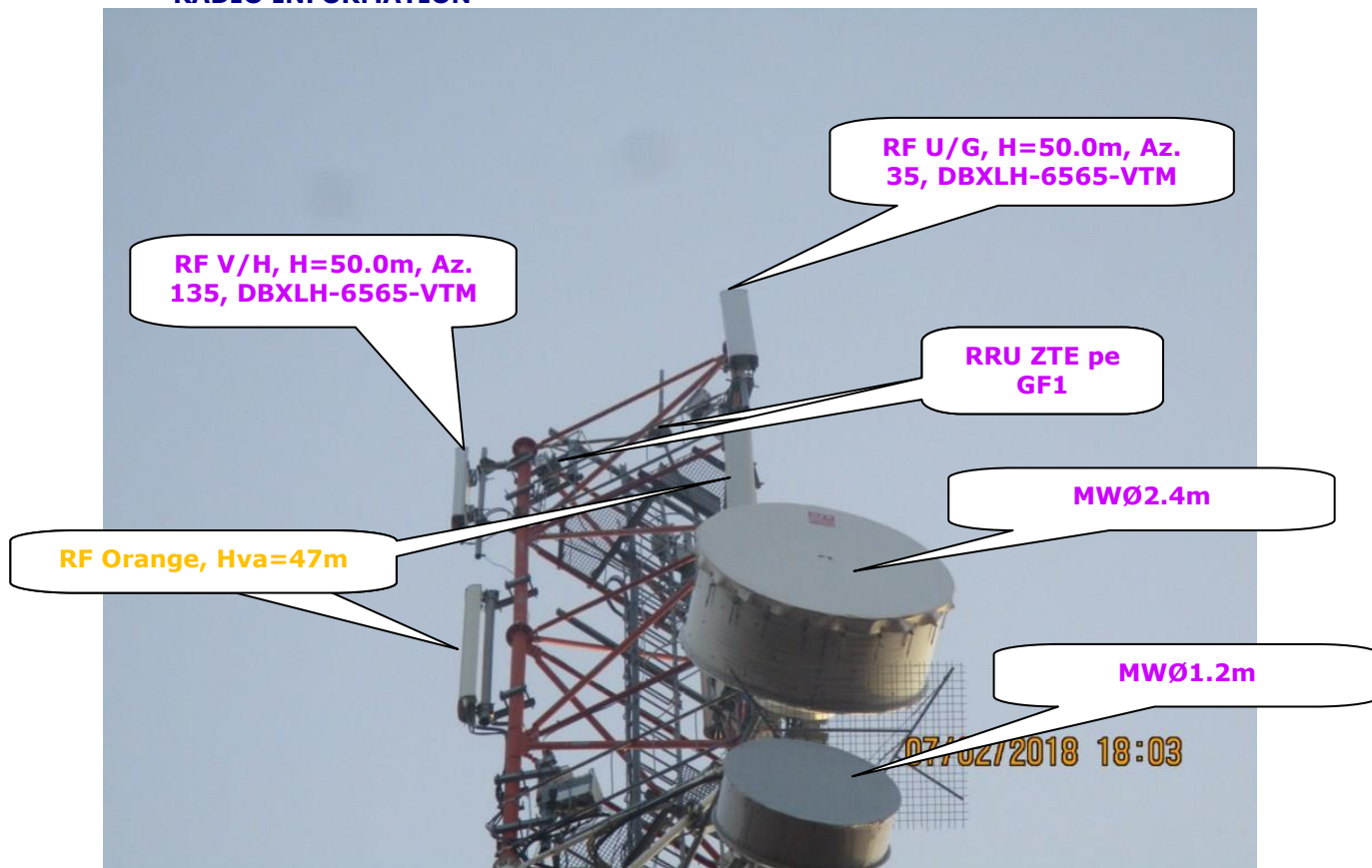




**Nu se poate ajunge la site cu masina deloc. Drum impracticabil.
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RADIO INFORMATION







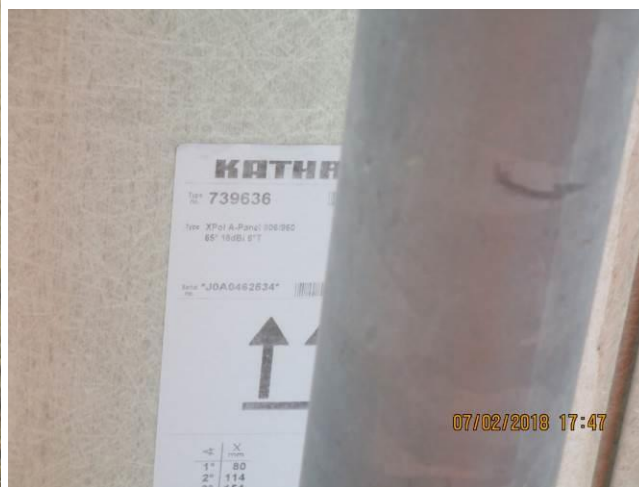
Sectorul 1





Sectorul 2







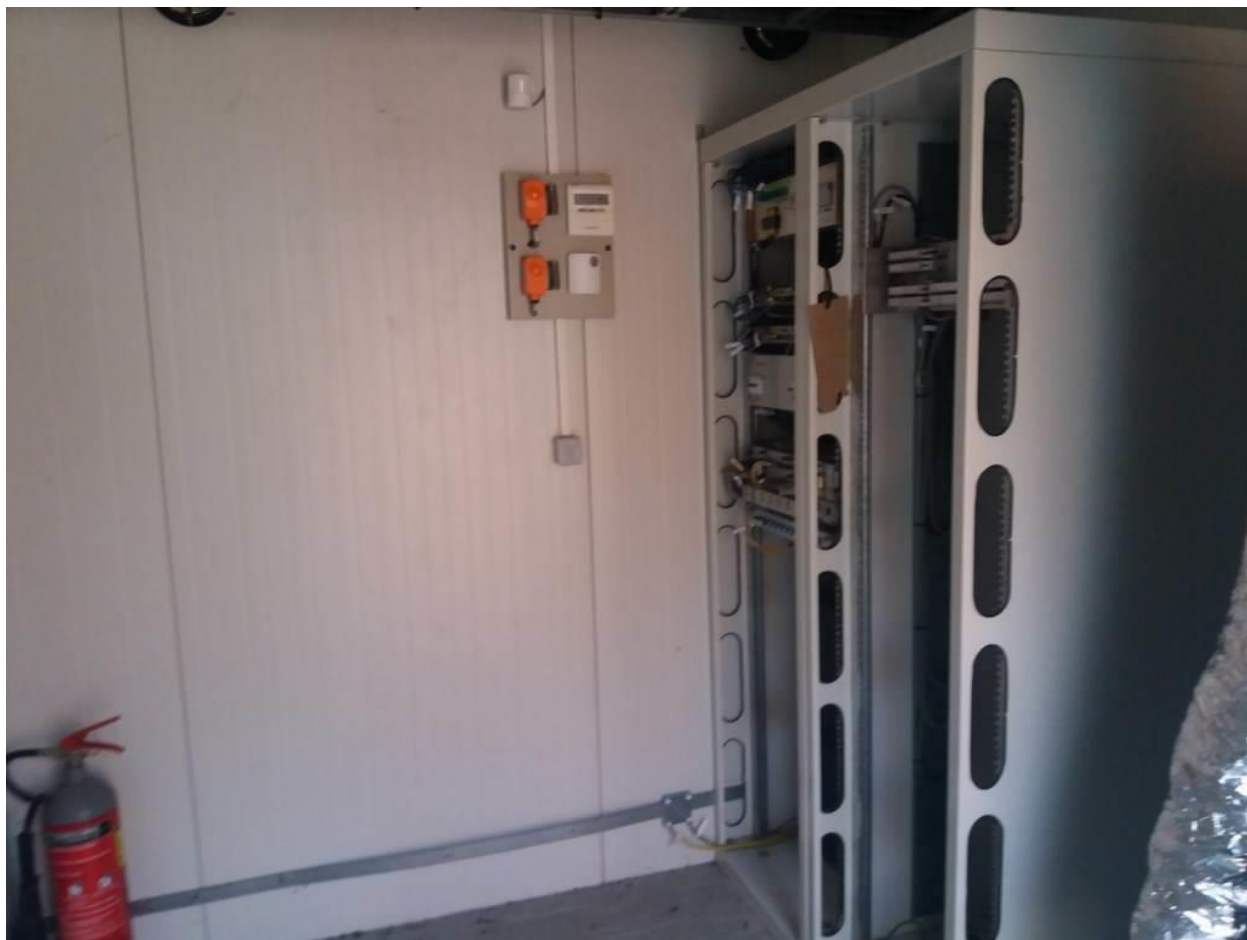
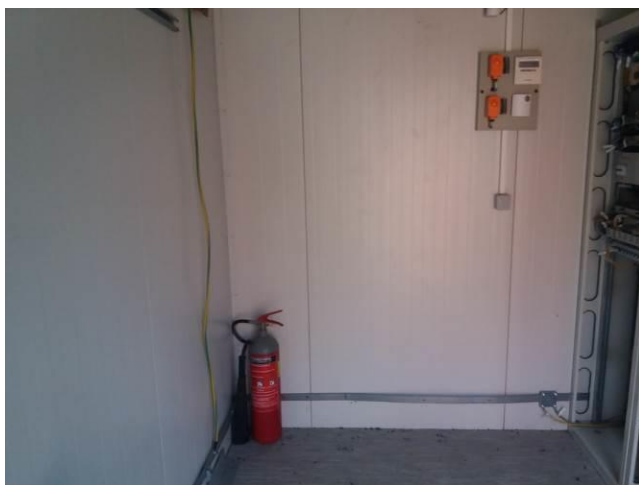


Sectorul 3

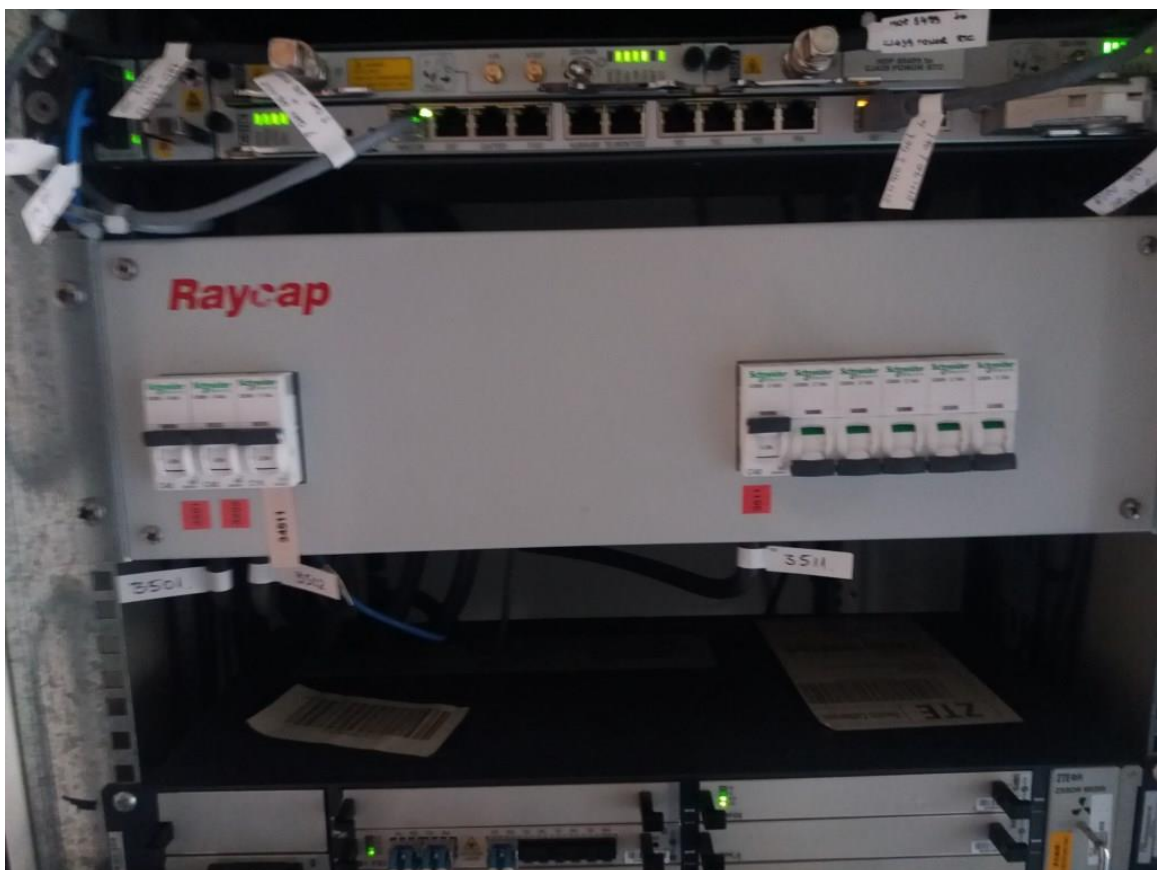




Roxtec neizolat

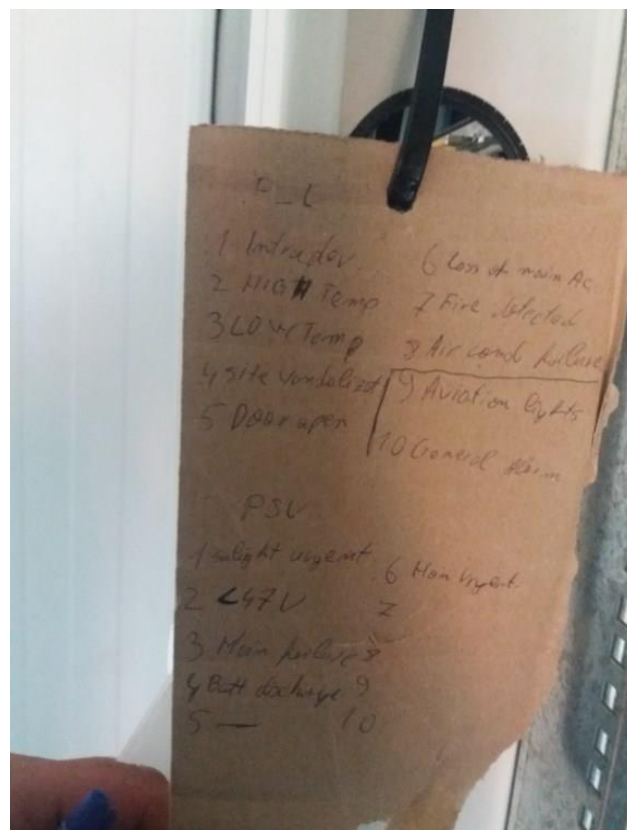
















CW INFORMATION



12. PROPOSED INFRASTRUCTURE & EQUIPMENT SOLUTION

a. Indoor cabinets

Dimensions of existing room:	3.8x2.15m
Space availability for indoor equipment:	YES
Expansion of existing equipment room:	NO
Shelter needed:	NO
Shelter concrete base needed:	NO
Space availability for new shelter positioning:	N/A
AC power extension/change:	NO
Main grounding bus bar existence:	YES
Water proofing of the room needs restoration:	NO
Internal Lighting restoration:	NO
Wall painting needed:	NO
Antistatic floor addition:	NO
Fire alarm system expansion:	NO
Air Conditioning (A/C) expansion/replacement:	NO
Nr./capacity[A] of rectifier modules	4x50A;
Security Lights board:	NO
Plastic trays for cables expansion :	NO
Internal ladder for the feeders availability:	YES
Cable entry expansion:	NO
Other Remarks:	-

b. Outdoor cabinets

New metal base needed:	N/A
Dimensions of new metal base:	N/A
Secure of metal base on floor:	N/A
Grounding of base/Earthing for equipments:	N/A
AC power supply availability:	N/A
Needed properly holes on base:	N/A
Clearances around cabinets:	N/A
Other Remarks:	-

c. Proposed New Masts

	Height	Length	poles/mast	Cell_id on the mast	Position
1					
2					
3					
4					

d. New Antenna Poles

	Height	Length	Cell_id	Corner/Tower	Obstacles	installation readiness
1						
2						
3						
4						

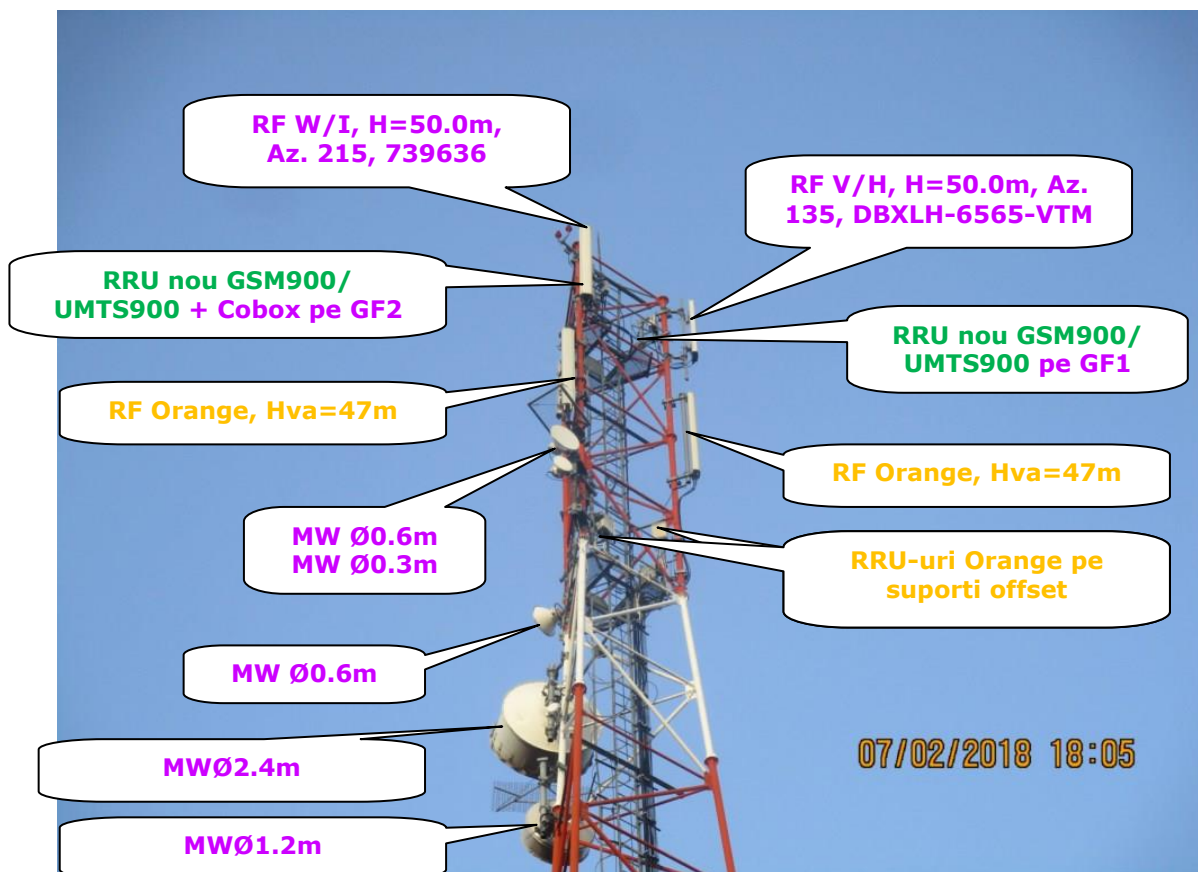
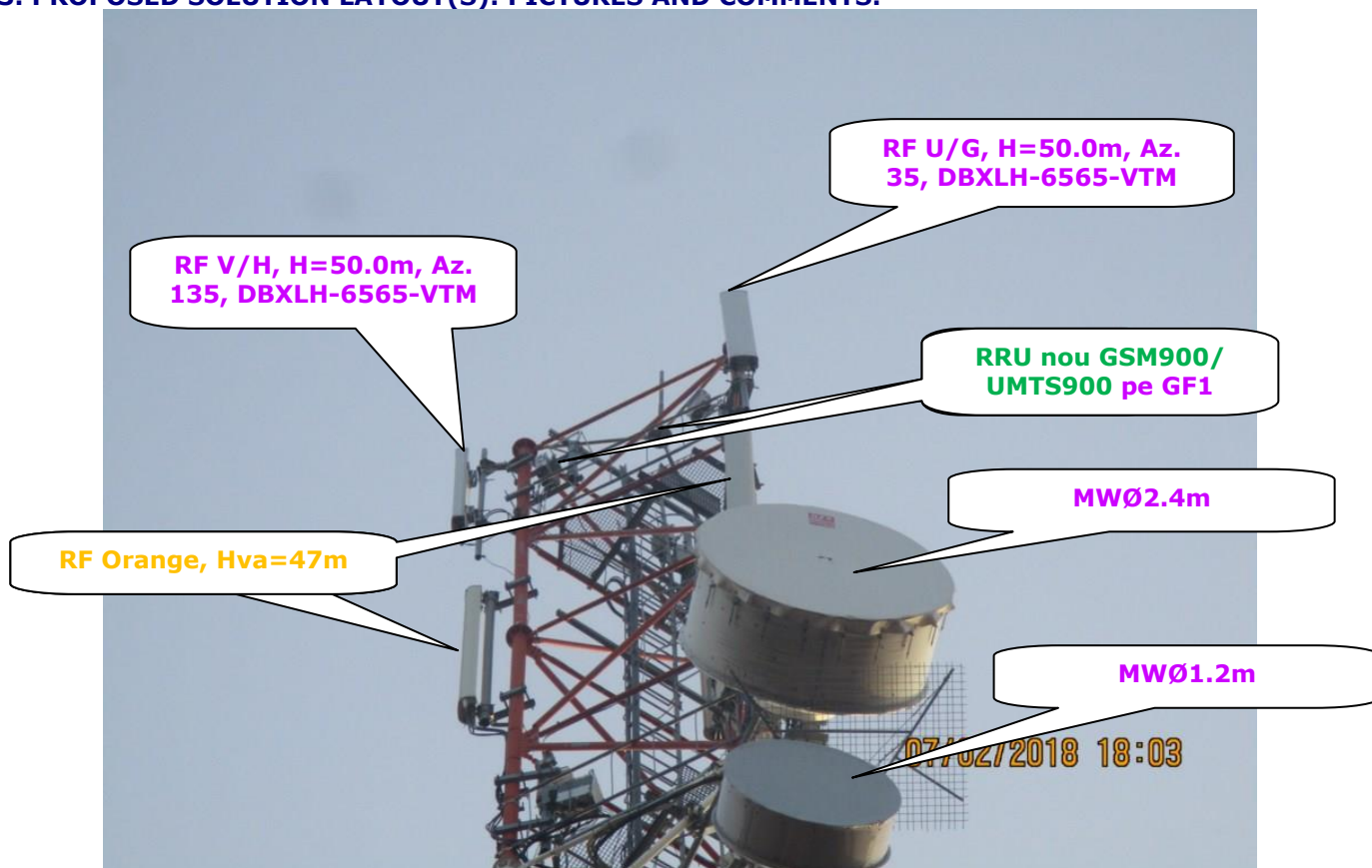
e. New MW Poles

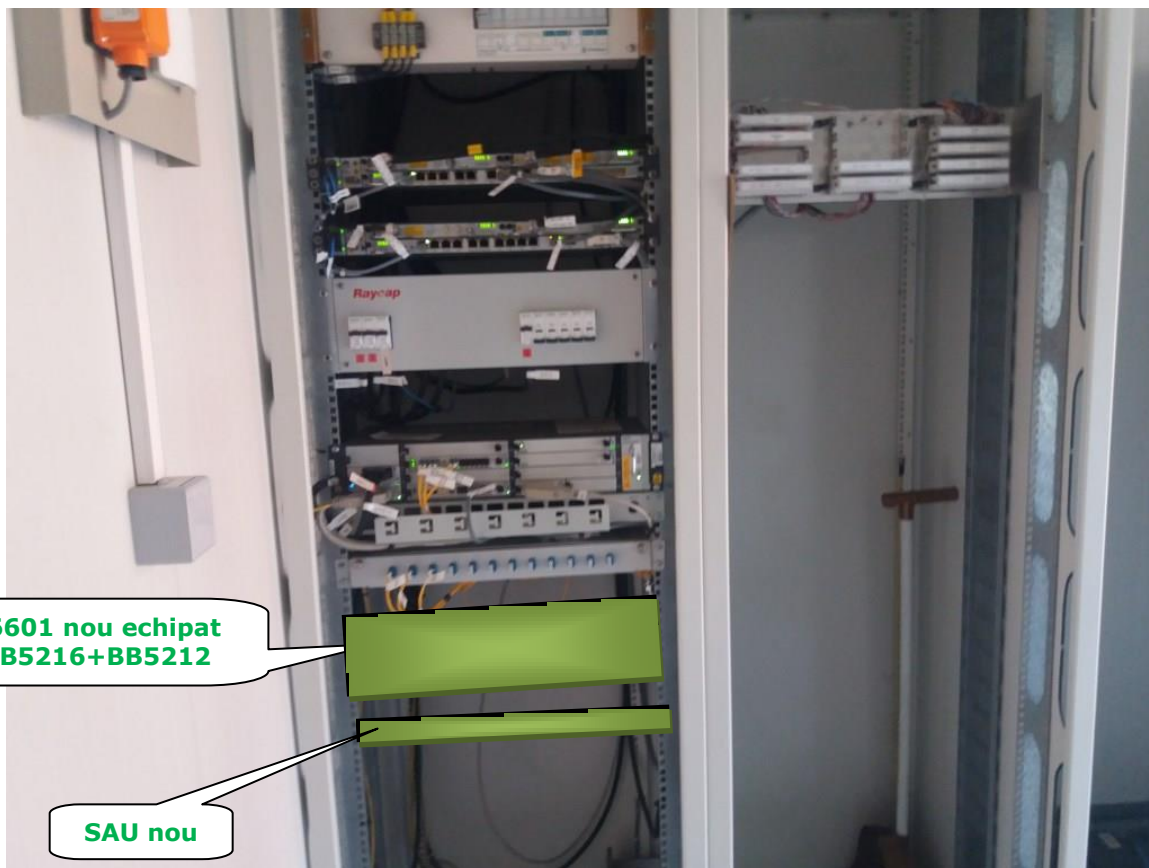
	Height	Length	Hop id	Corner/Tower	Far end	Obstacles	installation readiness
1							
2							
3							



Proposed corrective works:	Reconfigurarea site-ului CJ117 SALCIUA care sa includa urmatoarele elemente: - se vor pastra antenele existente 2xDBXLH-6565-VTM si 1x739636; - pe cei 2 suporti GF1 si pe suportul GF2 se vor instala 3xRRU-uri noi (GSM900/UMTS900); - se va refolosi CoBox-ul existent; - in rack existent se va instala 1xRBS6601 nou cu BB5216 si BB5212, care se va alimenta din 1x16A existenta si un SAU nou; - RRU-urile se vor alimenta din 3 sigurante existente de 16A din CoBox cu cabluri DC CU2x6mmp – 5m; - Dupa swap, se vor dezinstala RRU-urile ZTE impreuna cu FO/DC si echipamente aferente din shelter; Lungimi cabluri: Jumperi 1/2" – 6x3m; FO – 6x5m; DC CU2x6mmp – 6x5m; DC alimentare RBS6601 – 2m;
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13. PROPOSED SOLUTION LAYOUT(S): PICTURES AND COMMENTS:





14. Detailed site information/Picture:

- Pictures with Metallic existing structure; further reuse to be acknowledge by Telekom;
- Pictures with existing Cable tray to decide if additional feeders can be added/ if case