



SITE SURVEY REPORT Ericsson

1. GENERAL INFORMATION

Site name:	BRETCU_ORG
Site number (code):	BV 461
Site address (city;street;no.; building; entrance):	Extravilan, sat Martanus CF1662, cad.783/1, comuna Bretcu, judetul Covasna
Site area:	B
Site survey team:	ACT
Checked by:	Alexandru Martin
Date of site survey:	16.01.2018
Type of Site (urban, rooftop):	Rural pylon
Lesser:	
Contact Person:	



Other Remarks:	
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2. ROOFTOP (Building information)

GPS coordinates:	N° '" E° '"
Building height: m
Existent tripod:	Yes <input type="checkbox"/> NO <input type="checkbox"/>
Total height: m
Use of crane for materials transportation:	Yes <input type="checkbox"/> NO <input type="checkbox"/>

Other Remarks:	
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3. GREEN FIELD (Specific data information)

GPS coordinates:	N 46° 01' 40.74" E 26° 17' 34.54"
Tower:	Yes <input checked="" type="checkbox"/> NO <input type="checkbox"/>
Tower type:	<input checked="" type="checkbox"/> Heavy Cosmospite tower – 50m (or more) <input type="checkbox"/> Polygonal Monopole – 30m (or more) <input type="checkbox"/> Monopole lattice tower-30m <input type="checkbox"/> Guyed tower on shelter-30m
Antenna Metallic Structure:	New "H" Yes <input type="checkbox"/> NO <input checked="" type="checkbox"/> Upgrade existing "H" Yes <input type="checkbox"/> NO <input checked="" type="checkbox"/> Atypical Structure Yes <input type="checkbox"/> NO <input checked="" type="checkbox"/>
RRU Metallic Structure:	New RRU Support Yes <input type="checkbox"/> NO <input checked="" type="checkbox"/> Atypical Structure Yes <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Mini - shelter require:	Yes <input checked="" type="checkbox"/> NO <input type="checkbox"/>
Mini – shelter frame standard adaptor solution:	Yes <input checked="" type="checkbox"/> NO <input type="checkbox"/>
In case Non Standard Mini-shelter frame solution, dimensions are requested: mm x mm x mm
Non standard mini - shelter frame profile	Picture to add in the bottom
RRU to Antenna/Combiner Jumper length (type: DIN7/16 Male –N Male): m
Antenna to Combiner -> Jumper length (type: DIN7/16 Male – DIN7/16 Male): m
FO cable length between BB to RRU m
DC cable length between PP to RRU m
Type and length of DC power for RRU Cu 2x6 mm ² (L<30m):	Type / m
Type and length of DC power for RRU Cu 2X10 mm ² if needed(30m<L<60m):	Type / m
Type and length of DC power for RRU Cu 2X16 mm ² if needed(60m<L<90m):	Type / m
Type and length of DC power for RRU Cu 2X25 mm ² if needed(L>90m):	Type / m
Combo Box required:	Yes <input type="checkbox"/> NO <input type="checkbox"/> ; Length of cable: m
Connection patch length from CB to RRU (FO&DC)	M
Outdoor CB existing breakers type	16A <input type="checkbox"/> 25A <input type="checkbox"/> Oth. <input type="checkbox"/> ...A spec
PDU existing breakers availability (63A in PP)	Yes <input type="checkbox"/> NO <input type="checkbox"/>
DC cable length from PP to new PDU m
PP Type / producer plus picture on the bottom	

4. EXISTING CONTRACT & CHANGES

Indoor space requires contract change	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Outdoor space requires contract change	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Cable routing requires contract change	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Power cabling requires contract change	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Indoor space requires studies & license change	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Outdoor space requires studies & license change	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Cable routing requires studies & license change	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Power cabling requires studies & license change	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

Other Remarks:	
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5. POWER SUPPLY INFORMATION

Power availability:	
Voltage-measurements (PLC display):	L1(V) <input type="checkbox"/> L2(V) <input type="checkbox"/> L3(V) <input type="checkbox"/>
Amperage-measurements (PLC display, without A/C):	I1(A) <input type="checkbox"/> I2(A) <input type="checkbox"/> I3(A) <input type="checkbox"/>
Amperage-measurements (PLC display, with A/C):	I1(A) <input type="checkbox"/> I2(A) <input type="checkbox"/> I3(A) <input type="checkbox"/>
Outdoor mini shelter: 32A available breaker in LDB (5x6 mm ² AC Cable)	Yes
1X20A available breakers in indoor Power System	N/A
1X40A available breakers in indoor Power System	N/A
2X63A available breakers in indoor Power System	N/A
Power counter exist:	N/A
Main AC board exist:	N/A
Breaker value in BMPT:	32A
Surge arrestors existence:	N/A
Type and length of power connection cable for BBU	N/A
Type and length of power connection shielded cable AI 6X25 mm ² if needed:	N/A
Type and length of power connection shielded cable AI 6X35 mm ² if needed:	N/A
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 AI 2x35 mm ² if needed:	N/A
CB/PDU/2 Sections (if needed):	N/A
CB/PDU/3 Sections (if needed):	N/A
PDU indoor (if needed):	N/A
Boards grounding - secured:	N/A
Boards waterproofed:	N/A

Other Remarks:	
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6. POWER PLANT and BATTERY INFORMATION

Number of units	<input type="checkbox"/> Unit 1	Unit 2 <input type="checkbox"/>
Type	300A <input type="checkbox"/> 600A <input type="checkbox"/> Other <input type="checkbox"/>	300A <input type="checkbox"/> 600A <input type="checkbox"/> Other <input type="checkbox"/>
Nr./capacity[A] of rectifier modules	N/A	
DC Load Amperage(displayed) [A]	N/A	
Battery capacity [Ah]	N/A	
Battery type/number	N/A	

Other Remarks:	
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7. AIR CONDITIONING INFORMATION

Temperature [°C]	Internal: -	External: -
Number of units	Unit 1 <input type="checkbox"/>	Unit 2 <input type="checkbox"/>
Type	Free Cooling <input type="checkbox"/> Duct <input type="checkbox"/> Split <input type="checkbox"/>	Free Cooling <input type="checkbox"/> Duct <input type="checkbox"/> Split <input type="checkbox"/>
Technical specifications from external unit label		
Cooling capacity [BTU]	9.000 <input type="checkbox"/> 12.000 <input type="checkbox"/> 18.000 <input type="checkbox"/> 24.000 <input type="checkbox"/> Other <input type="checkbox"/>	9.000 <input type="checkbox"/> 12.000 <input type="checkbox"/> 18.000 <input type="checkbox"/> 24.000 <input type="checkbox"/> Other <input type="checkbox"/>



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 <input type="checkbox"/> Very low temp <input type="checkbox"/>	Very high temp <input type="checkbox"/> Very low temp <input type="checkbox"/>

Other Remarks:	
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8. NEW INSTALLATION INFORMATION

Common: number of buss with free holes	N/A
Common: Available space on the existing cable tray	N/A
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	N/A
Indoor equipment: Available holes in FIMO	N/A
Outdoor equipment: Existing space on the existing base frame for mini shelter mounting	Yes
Outdoor equipment: Existing outdoor transmission cabinet	Yes
Outdoor equipment: Existing space for outdoor Concentrator mounting (proposal)	Yes
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 <input type="checkbox"/>	Outdoor <input checked="" type="checkbox"/>	
Number of RF antennas:	3		
Number of MW links	1		
Nr. of existing RBS cabinets	1x2106		
MW existing RL cabinet	Indoor <input type="checkbox"/>	Outdoor <input checked="" type="checkbox"/>	
Power cabinet exist (BBS):	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Existing cable ladder availability:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Existing cable entry availability:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Air condition existence & operation	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Grounding protection existence:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Lightning protection existence:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Installation of RF & IF cables requires special machinery (e.g. crane)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	



b. Existing Masts

	Height	Length	poles/mast	Cell_id on the mast	installation readiness
1	26m	3m	Sector 1		
2	26m	3m	Sector 2		
3	26m	3m	Sector 3		
4					

c. Existing Antenna Poles

	Height	Length	Cell_id	Corner/Tower	Obstacles	installation readiness
1	26.5m	3m	RF U			
2	26.5m	3m	RF V			
3	26.5m	3m	RF W			
4						
5						
6						

d. Existing MW Poles

	Height	Length	Hop id	Corner/Tower	Far end	Obstacles	installation readiness
1	13m	2.0	MW				
2							
3							
4							
5							

Remarks:	
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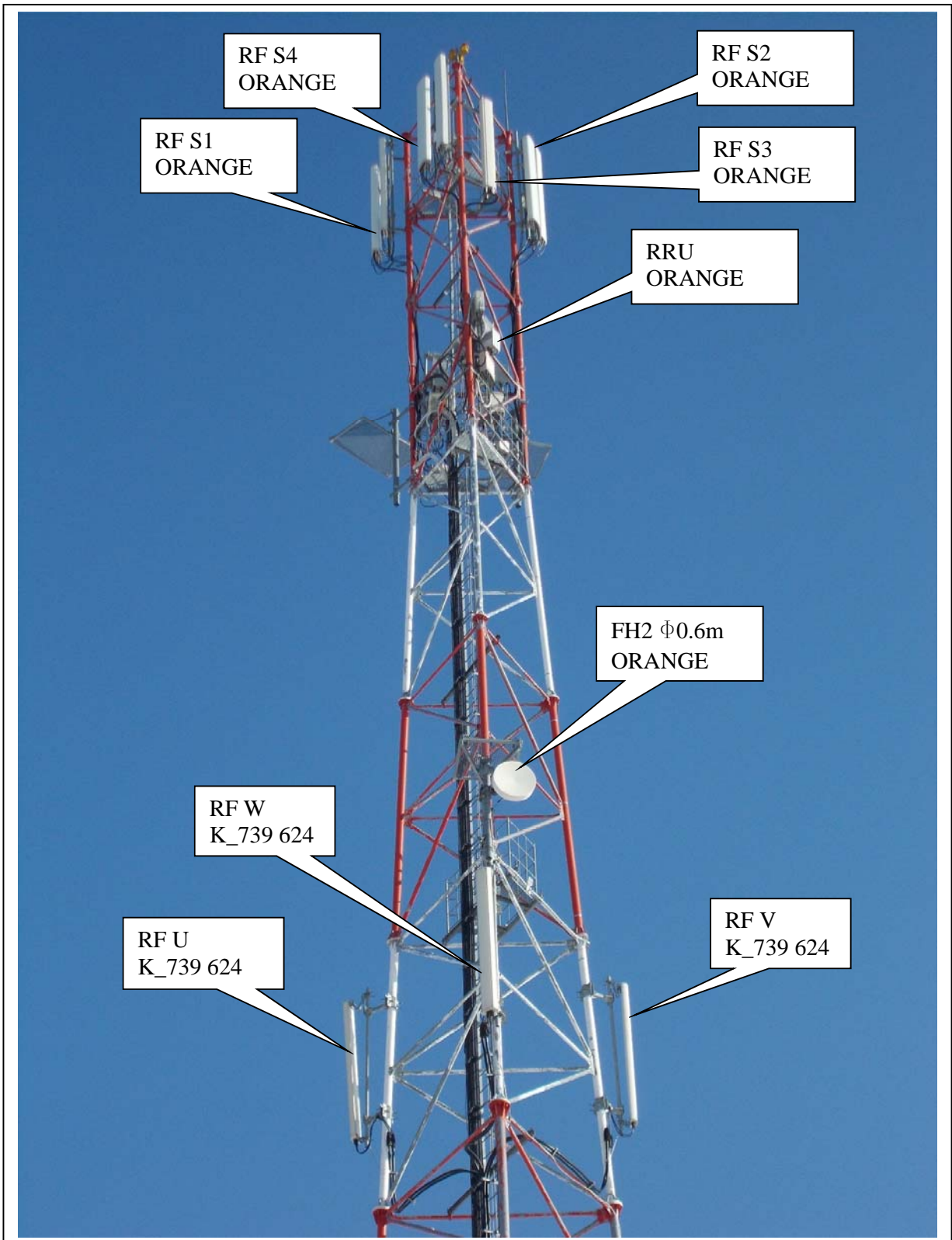
10. ANALYSIS LOADING DATA

LOAD TYPE	DIAMETER (mm)	POSITION (m)	NUMBER
M/W LINK	0.6	14.00	1
M/W LINK			
M/W LINK			
M/W LINK			
M/W LINK			
M/W LINK			

11. EXISTING LAYOUT(S): Pictures

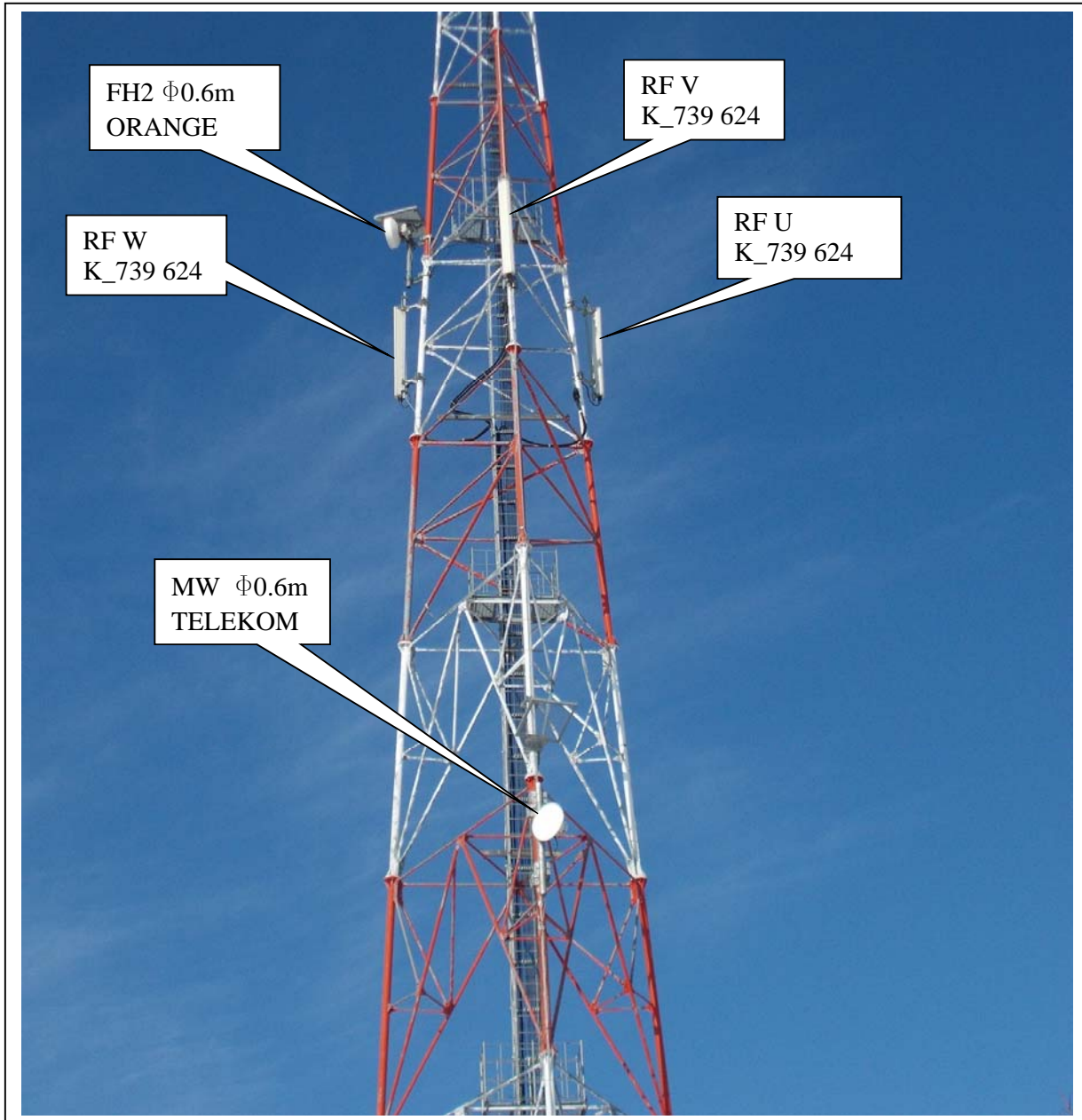


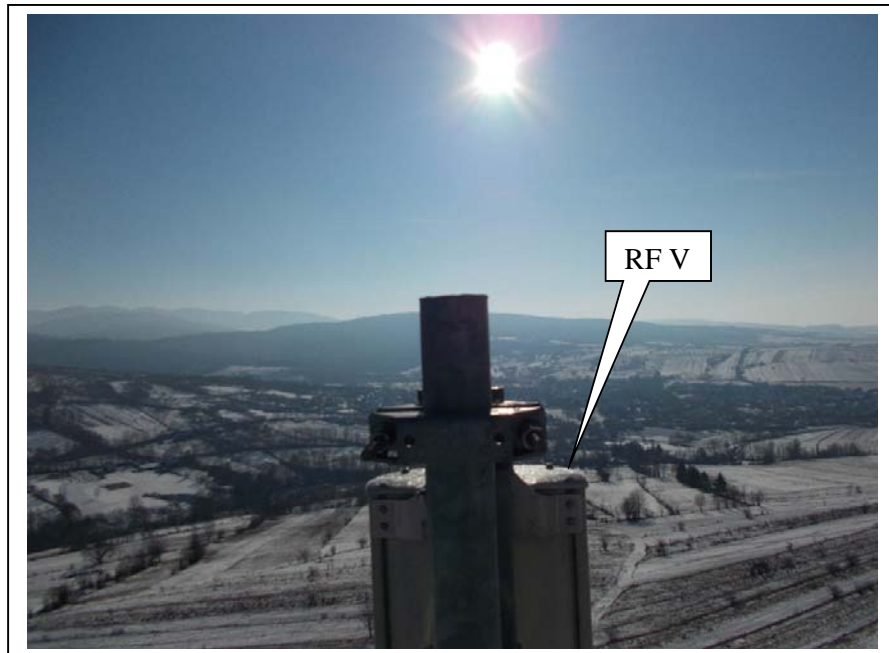
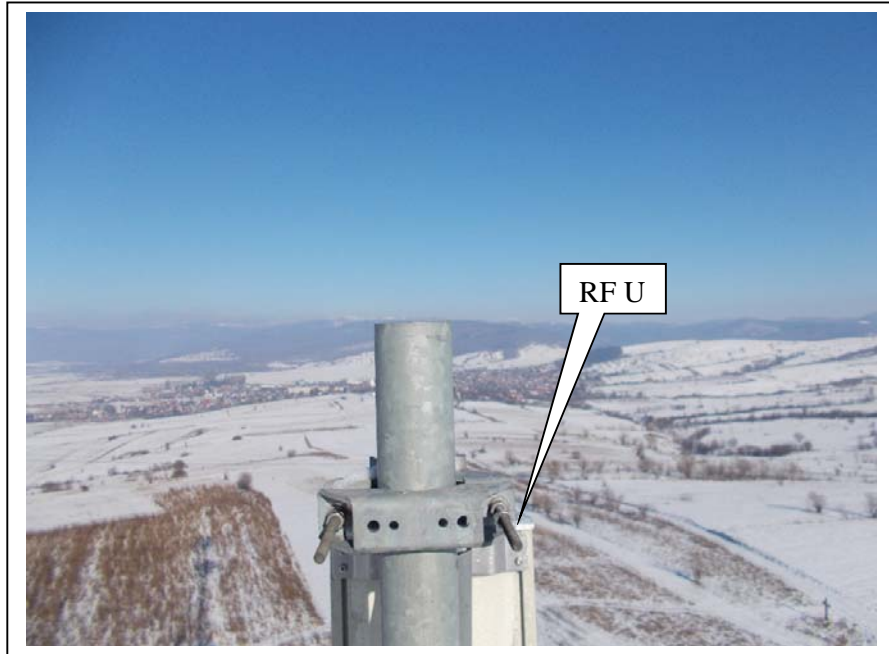
GENERAL VIEW OF STRUCTURE

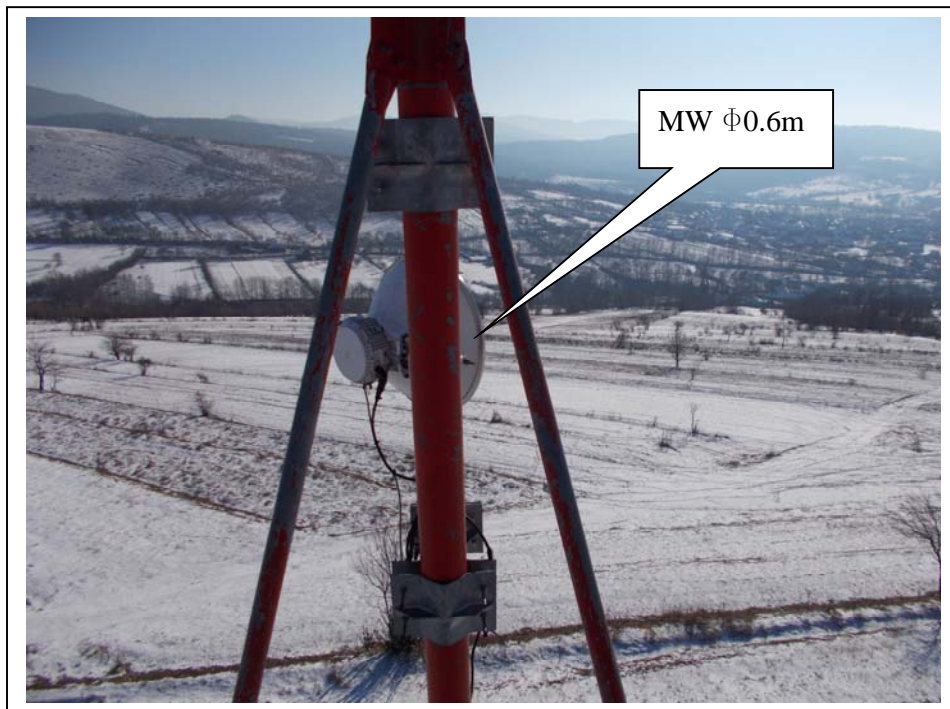




RADIO INFORMATION

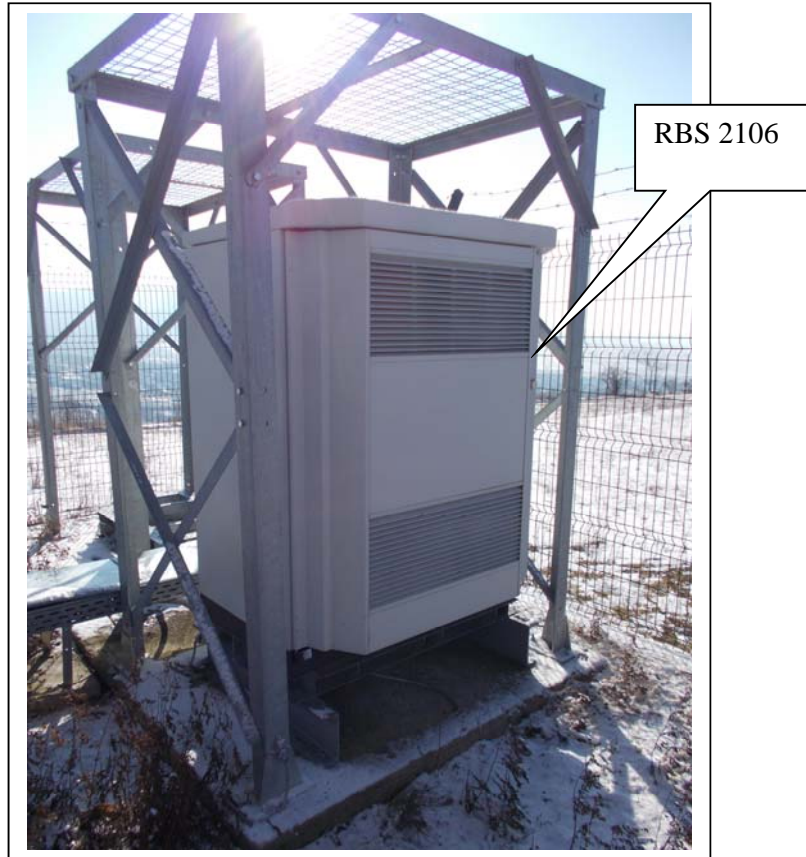


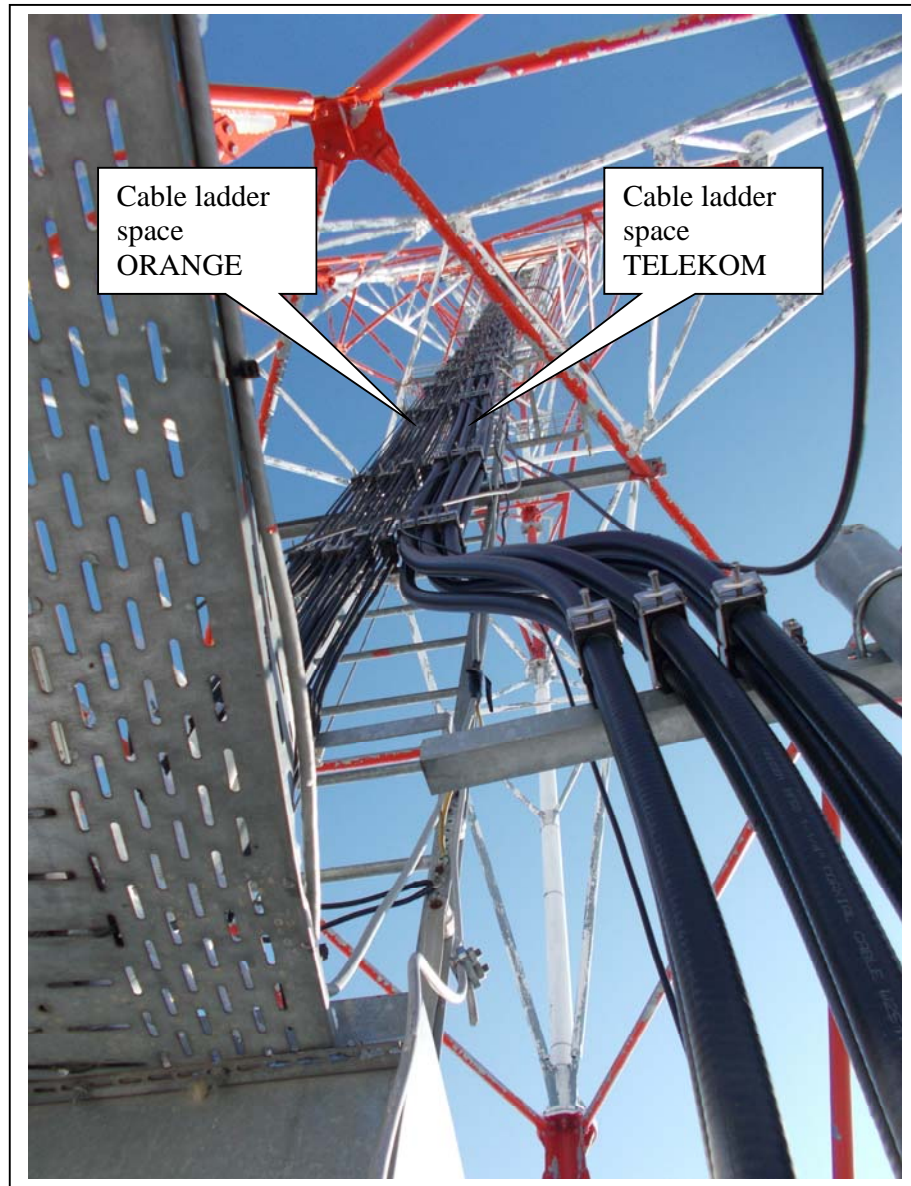


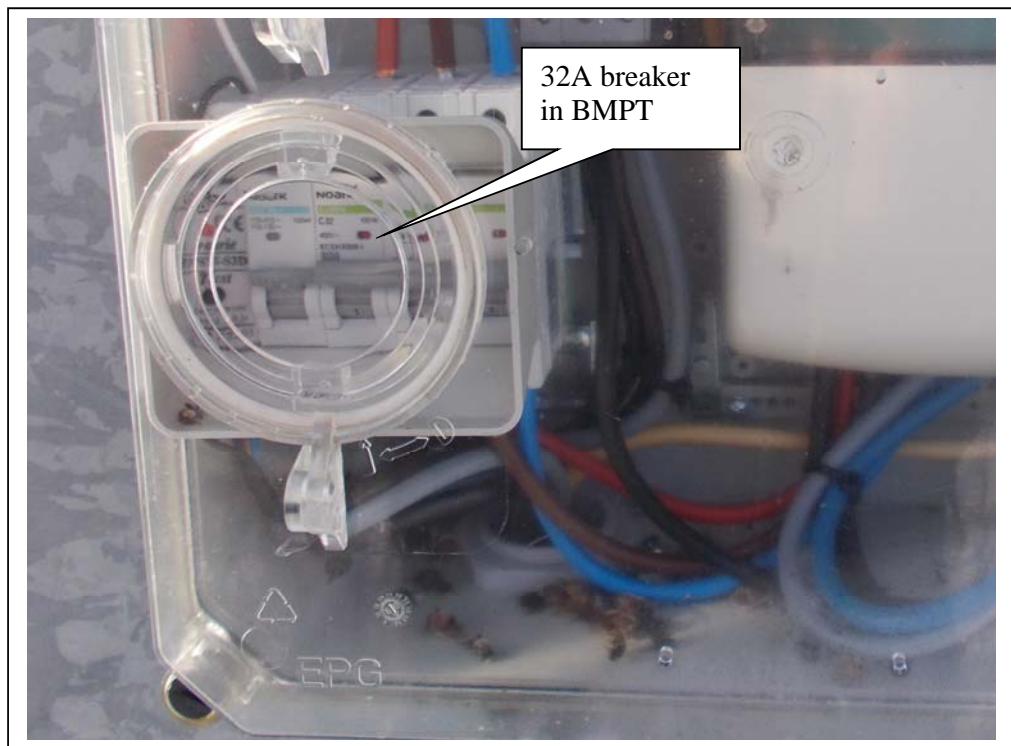
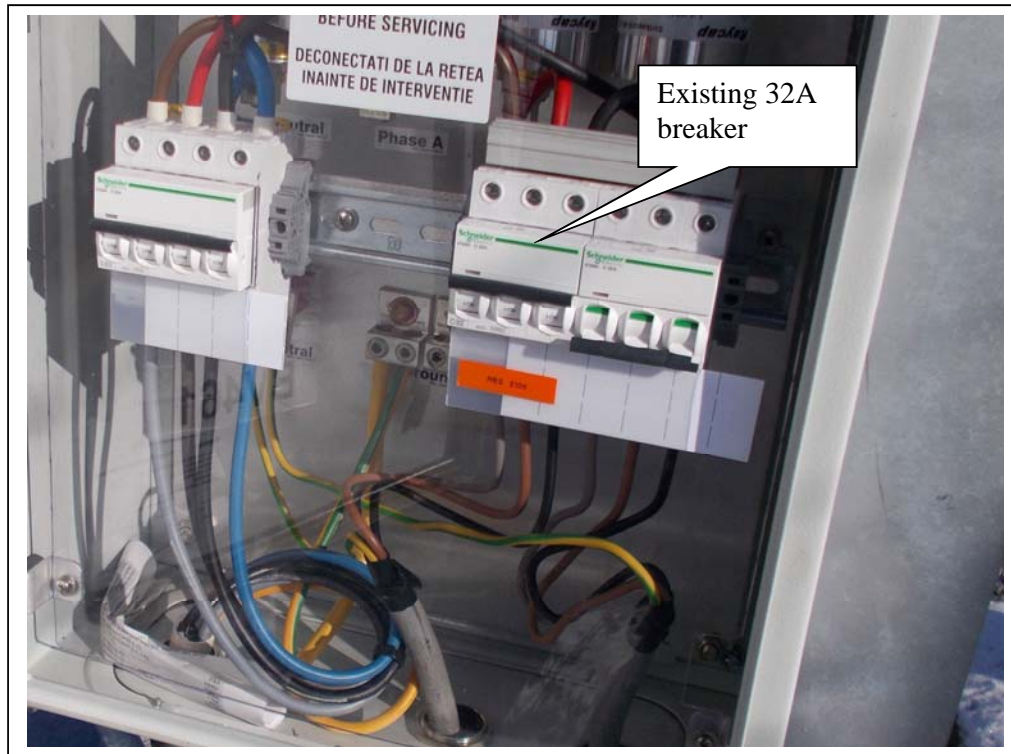




CW INFORMATION









12. PROPOSED INFRASTRUCTURE & EQUIPMENT SOLUTION

a. Indoor cabinets

Dimensions of existing room:	
Space availability for indoor equipment:	
Expansion of existing equipment room:	
Shelter needed:	
Shelter concrete base needed:	
Space availability for new shelter positioning:	
AC power extension/change:	
Main grounding bus bar existence:	
Water proofing of the room needs restoration:	
Internal Lighting restoration:	
Wall painting needed:	
Antistatic floor addition:	
Fire alarm system expansion:	
Air Conditioning (A/C) expansion/replacement:	
Nr./capacity[A] of rectifier modules	
Security Lights board:	
Plastic trays for cables expansion :	
Internal ladder for the feeders availability:	
Cable entry expansion:	
Other Remarks:	

b. Outdoor cabinets

New metal base needed:	
Dimensions of new metal base:	
Secure of metal base on floor:	
Grounding of base/Earthing for equipments:	
AC power supply availability:	
Needed properly holes on base:	
Clearances around cabinets:	
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:	
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13. PROPOSED SOLUTION LAYOUT(S): PICTURES AND COMMENTS:

14. Detailed site information/Picture:

- Additional it is requested to document:
 - o Pictures with Metallic existing structure; further reuse to be acknowledge by Telekom;
 - o Pictures with existing Cable tray to decide if additional feeders can be added/ if case
 - o LDB inside picture where breakers (32A) value and space to be visible/ where Mini-shelter is requested
 - o Mini-shelter frame photo (where metallic structure/profile to be visible)
 - o PP picture details / producer & breaker value to be visible
 - o Picture with space availability (Existing Mini-shelter or rack)
 - o Pictures with Transmission solution/ outdoor cables