

CROSS SECTION A-A

**NOTES:**

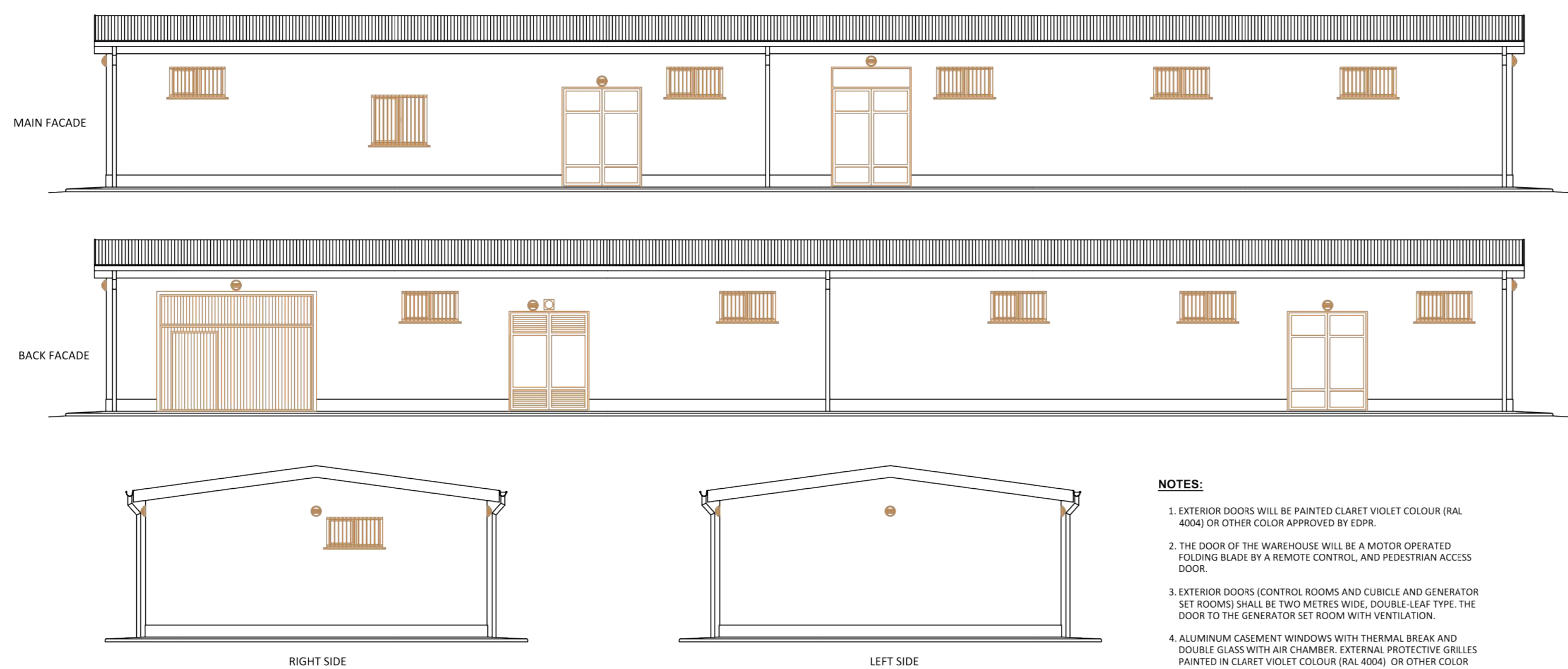
- THIS IS AN INDICATIVE DRAWING. BUILDING MUST BE CALCULATED ACCORDING TO LOCAL AND INTERNATIONAL LEGISLATION.
- CABLE BASEMENT: MINIMUM HEIGHT MUST BE 1.7 M.
- THE SLOPE OF THE ROOF WILL DEPEND ON THE LOCATION OF THE BUILDING (CLIMATIC CONDITIONS). IF NEEDED, ROOF MOUNTED SNOW FENCES MUST BE CONSIDERED.
- FLOOR CEILING SHALL BE INSTALLED IN THE FOLLOWING ROOMS: POWER PLANT CONTROL ROOM, SUBSTATION CONTROL ROOM, KITCHEN AND W.C.
- RAISED ACCESS FLOOR WILL BE INSTALLED IN THE CONTROL ROOM, POWER PLANT AND SUBSTATION.
- CONCRETE FLOOR WITH EPOXY RESIN WILL BE INSTALLED IN MV SWITCHGEAR ROOM.
- ALL ACCESS TO THE BUILDING FOR CABLES THROUGH THE STRUCTURE MUST BE PERFECTLY SEALED BY WATER-TIGHT WALL BUSINGS.
- SEE SPECIFICATION TSP-EL-ERC-9857-00054 "DESIGN AND CONSTRUCTION OF SUBSTATION CONTROL BUILDING" FOR MORE DETAILS.

MV SWITCHGEAR ROOM CUBICLES		EQUIPMENT IN SUBSTATION CONTROL ROOM	
1	CIRCUIT POWER PLANT "A"	T1	TRANSFORMER 1
2	CIRCUIT POWER PLANT "B"	T2	TRANSFORMER 2
3	CAPACITOR BANK PROTECTION	L1	LINE 1
4	AUXILIARY SERVICES	INTEGRATED CONTROL SYSTEM PANELS	
5	TRANSFORMER MEASUREMENT	COM. UTILITY	COMMUNICATION PANEL FOR UTILITY
6	POWER TRANSFORMER PROTECTION	COM. UTILITY	COMMUNICATION PANEL FOR UTILITY (RESERVE)
7	EQUIPPED RESERVE CIRCUIT	EAS	ENERGY MANAGEMENT SYSTEM (EMS)
COUPLING BETWEEN BUSBARS		SCS	SUBSTATION SECURITY SYSTEM
9	COUPLING	COM	COMMUNICATION PANEL FOR EOPR
10	PROT.	MEASUREMENT 1	
BUSBAR 2		MEASUREMENT 2	
11	EQUIPPED RESERVE CIRCUIT	RB. 1	RECTIFIER 1
12	POWER TRANSFORMER PROTECTION	RB. 2	RECTIFIER 2
13	MEASUREMENT	RB. 3	RECTIFIER 3
14	CAPACITOR BANK PROTECTION	RB. 4	RECTIFIER 4
15	AUXILIARY SERVICES TRANSFORMER	A.C.	AUXILIARY SERVICES A.C.
16	CIRCUIT POWER PLANT "A"	D.C.	SUBSTATION SERVICES D.C.
17	CIRCUIT POWER PLANT "B"	SEC.	SUBSTATION SECURITY SYSTEM
		LEDTN	LED LIGHTING

CONTROL BUILDING AREAS			
NO. BY/NO.	AREA	CONSTRUCTION	FINISH
1-10	CONTROL ROOM	33 m <sup>2</sup>	33 m <sup>2</sup>
11-12	KITCHEN	15 m <sup>2</sup>	15 m <sup>2</sup>
13-14	OFFICE	2 m <sup>2</sup>	2 m <sup>2</sup>
15-16	WC	2 m <sup>2</sup>	2 m <sup>2</sup>
17-18	LOCKERS	8 m <sup>2</sup>	8 m <sup>2</sup>
19-20	WAREHOUSE	10 m <sup>2</sup>	10 m <sup>2</sup>
21-22	PV POWER	11 m <sup>2</sup>	11 m <sup>2</sup>
23-24	WAREHOUSE	25 m <sup>2</sup>	25 m <sup>2</sup>
25-26	WAREHOUSE	53 m <sup>2</sup>	53 m <sup>2</sup>
27-28	WAREHOUSE	70 m <sup>2</sup>	70 m <sup>2</sup>
29-30	WAREHOUSE	30 m <sup>2</sup>	30 m <sup>2</sup>
31-32	WAREHOUSE	148 m <sup>2</sup>	148 m <sup>2</sup>

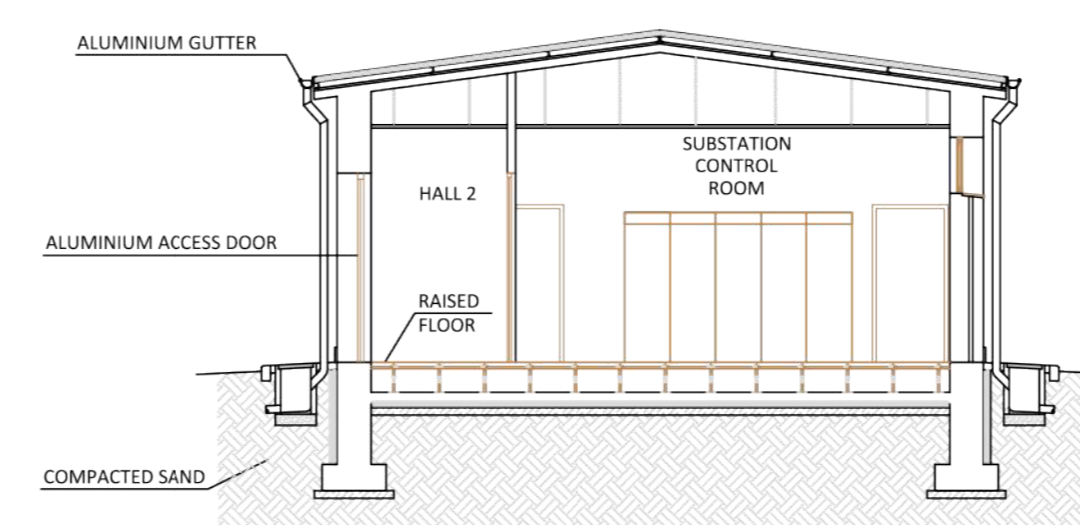
**NOTES:**

- ABOVE DESIGN CORRESPOND TO A SUBSTATION WITH TWO WIND FARMS (2 MW) WITH 22-30 MWTS IN TOTAL AND ONE LINE BAY (L1) - TWO TRAFFIC BAYS (T1).
- DIMENSION OF THE POWER PLANT CONTROL ROOM AND WAREHOUSE WILL BE MODIFIED ACCORDING TO THE TABLE ATTACHED. FINAL DIMENSIONS OF THE POWER PLANT CONTROL ROOM AND EQUIPMENT WILL BE DEFINED FOR EACH PROJECT ACCORDING TO MANUFACTURER REQUIREMENTS.
- MV SWITCHGEAR ROOM MUST BE ADAPTED TO THE NUMBER OF MV CUBICLES REQUIRED IN SUBSTATION UNDER DESIGN AND MV CUBICLE MANUFACTURER SPECIFICATIONS OF CUBICLE DIMENSIONS, WALL DISTANCE AND AISL WIDTH. DEPENDING ON THE MV CUBICLE FINAL MODEL OR IN CASE OF LIMITED SPACE, ALTERNATIVE ARRANGEMENTS, SUCH AS SINGLE ROW OR WALL STANDING, CAN BE CONSIDERED WITH THE APPROVAL OF EOPR. DISTRIBUTION OF CUBICLES SHALL BE ACCORDING TO THE PROJECT'S LAYOUT. THERE SHALL BE A SPACE FOR ONE FUTURE CIRCUIT IN EACH MV BAY.
- LAYOUT OF ROOMS CAN BE CHANGED TO ADAPT THE ACCESS AND GENERAL LAYOUT BUT PHILOSOPHY MUST BE KEPT UP.  
WAREHOUSE MUST BE ACCESSIBLE FROM THE MV SWITCHGEAR OR SUBSTATION CONTROL ROOM. THE MAIN DOOR MUST BE PREPARED FOR VEHICLE ACCESS, INCLUDING FORK-LIFTS AND PALLET TRUCKS. VEHICLES MUST ONLY REMAIN IN THE WAREHOUSE TO LOAD AND UNLOAD MATERIALS. PARKING IS NOT ALLOWED.  
KITCHEN MUST BE ACCESSIBLE FROM POWER PLANT CONTROL ROOM AND SUBSTATION CONTROL ROOM.  
IN NORMAL OPERATION, THE DOOR BETWEEN KITCHEN AND SUBSTATION CONTROL ROOM, WAREHOUSE, AND MV SWITCHGEAR ROOM AND/OR WAREHOUSE AND SUBSTATION CONTROL ROOM MUST BE CLOSED AND THE KEY MUST BE UNDER THE CONTROL OF O&M EOPR.  
THE ACCESS WATER TO THE CABLE BASEMENT IN THE MV SWITCHGEAR ROOM WILL HAVE AN ANTI-CLOSING SYSTEM AND THE RISK OF FALLING AT A DIFFERENT LEVEL WILL BE SIGNIFIED IN THE POSSE OF THE WATER'S DOOR.  
POWER PLANT CONTROL ROOM, WAREHOUSE, AND GENERATOR SET ROOM SHALL NOT BE ACCESSIBLE FROM SUBSTATION SWITCHYARD, IN ORDER TO AVOID PRESENCE OF NON-AUTHORIZED PERSONNEL IN HIGH-VOLTAGE AREAS.  
HALL 2 IS REQUIRED FOR GEODRAINAGES WITH HIGH PRESENCE OF SNOW. IT CAN BE ELIMINATED WITH THE APPROVAL OF EOPR.
- THE GEN SET ROOM AREA MUST BE ADAPTED TO THE FINAL EQUIPMENT RESPECTING AT LEAST 1 M<sup>2</sup> OF AREA ON BOTH SIDES OF THE GENERATOR SET.
- CONTROL BUILDING STRUCTURE MUST BE CALCULATED ACCORDING TO LEGISLATION AND ENVIRONMENTAL CONDITIONS OF THE AREA. THE LAYOUT OF WINDOWS CAN BE MODIFIED.
- ALL THE SPACES SHALL COMPLY WITH THE LOCAL HES REGULATIONS.
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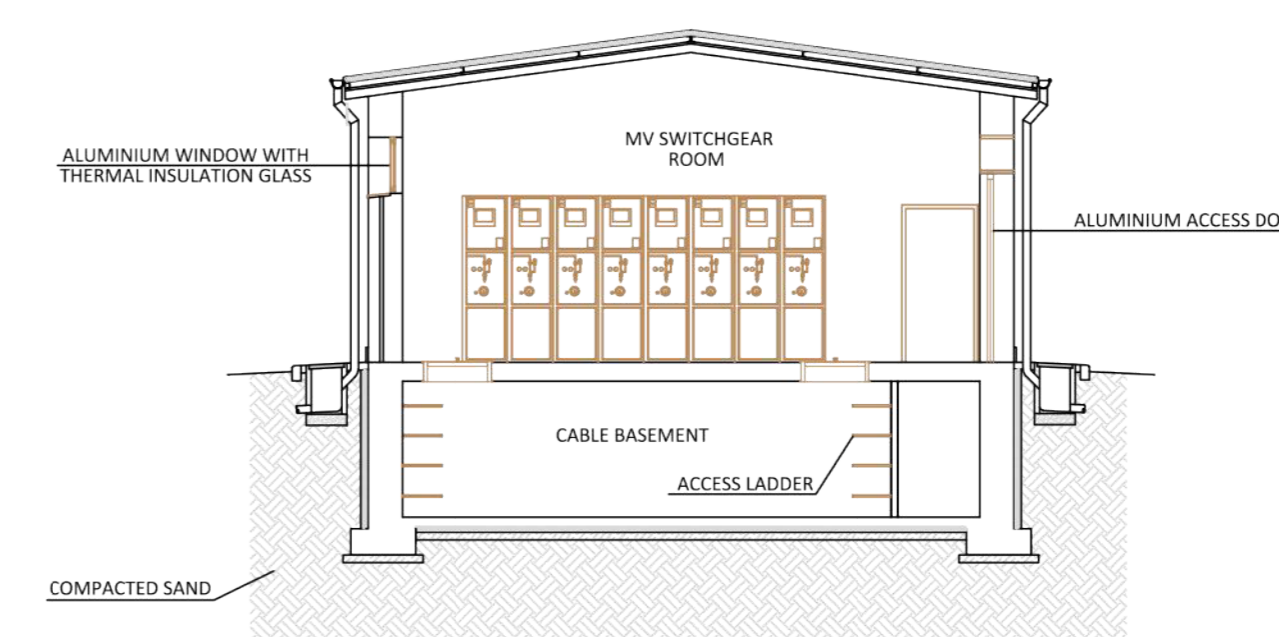


**NOTES:**

- EXTERIOR DOORS WILL BE PAINTED CLARET VIOLET COLOUR (RAL 4004) OR OTHER COLOR APPROVED BY EOPR.
- THE DOOR OF THE WAREHOUSE WILL BE A MOTOR OPERATED DOOR BLACK BY A REMOTE CONTROL, AND PEDESTRIAN ACCESS DOOR.
- EXTERIOR DOORS (CONTROL ROOMS AND CUBICLE AND GENERATOR SET ROOMS) SHALL BE TWO METRES WIDE, DOUBLE LEAF TYPE, THE DOOR TO THE GENERATOR SET ROOM WITH VENTILATION.
- ALUMINUM CASSETT WINDOWS WITH THERMAL BREAK AND DOUBLE GLASS WITH AIR CHAMBER, EXTERNAL PROTECTIVE GRILLES, PAINTED IN CLARET VIOLET COLOUR (RAL 4004) OR OTHER COLOR APPROVED BY EOPR.
- IN THE GENERATOR SET ROOM AND THOSE ROOMS WHERE COULD BE REQUIRED, FROST RESISTION ALUMINUM VENTS WITH A SURROUND AND FIXED WEATHERPROOF SLATS WILL BE INSTALLED.
- THE EOPR OFFICE WINDOW SHALL BE POSITIONED AT EYE-LEVEL TO ALLOW VIEW OF THE MV SWITCHGEAR.
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CROSS SECTION B-B



CROSS SECTION C-C

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<b>REGIONE SICILIANA</b> Libero Consorzio Comunale di Ragusa		<b>COMUNE DI ACATE E VITTORIA</b>	
<b>VICTORIA SOLAR FARM</b>		<b>PROGETTO PER LA REALIZZAZIONE E L'ESERCIZIO DI UN PARCO AGROVOLTAICO DA 179,53 MWP NEI COMUNI DI ACATE E VITTORIA E DELLE OPERE DI CONNESSIONE ALLA RETE DI TRASMISSIONE NAZIONALE</b>	
N. ELABORATO <b>D52</b>	N. REVISIONE <b>02</b>	TITOLO ELABORATO <b>Architettonico Edificio sottostazione di Elevazione</b>	
N. GENERALE <b>127</b>	N. PROD. <b>PRO</b>	N. AMBITO <b>PRO</b>	N. ID. ELAB. <b>D</b>
N. SCALA <b>1:100</b>		N. IDENTIFICATORE <b>VSF127PROD52</b>	
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SOGGETTO PROMOTORE <b>EDPR Sicilia PV s.r.l.</b> Via Lepore n. 6-10 91019 Palermo CF e P. IVA 11046000915 pec: edpr@edprpv.it		COLLABORAZIONE SPERIMENTALE <b>UNIVERSITÀ degli STUDI di CATANIA</b> Dipartimento di Agricoltura, Allevamento e Ambiente DIA	
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