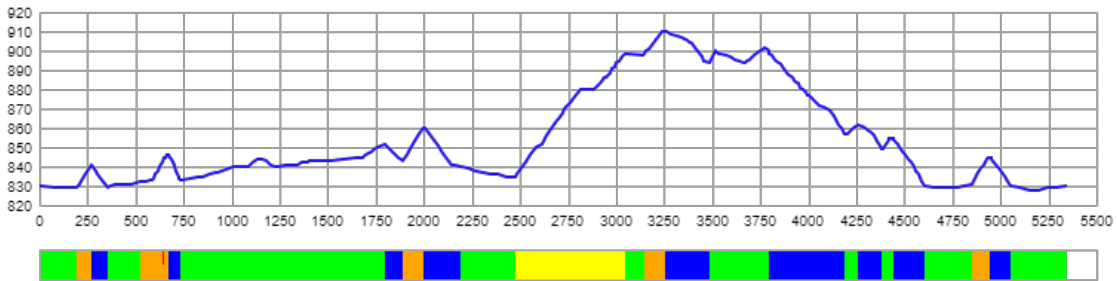




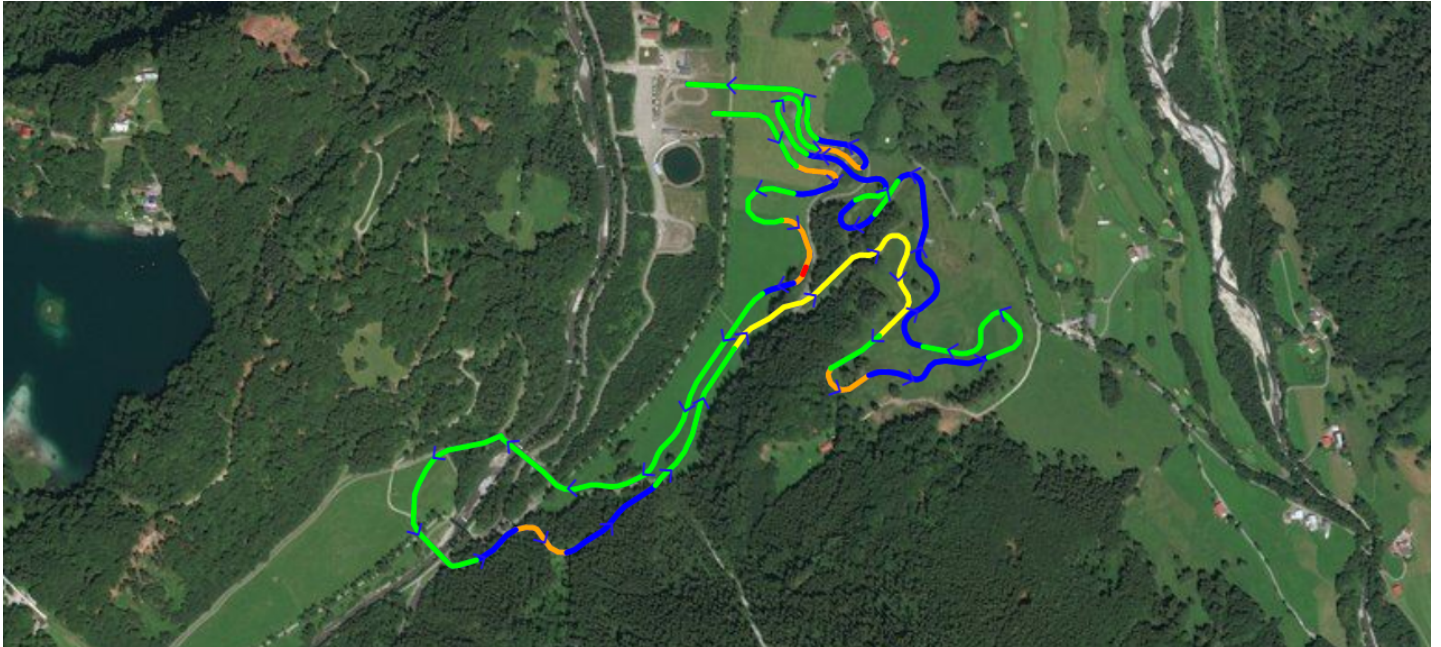
**CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE**

(1) Registration number:	WC19/125.12/5.0
(2) Name of the competition site:	Cross Country Center Ried
(3) Name of city/region:	Oberstdorf / Allgau
(4) Organizer:	Skisprung- und Veranstaltungen GmbH, Oberstdorf
(5) National ski association:	German Ski Federation / Deutscher Ski-Verband
(6) Contact person in the organizing committee:	Florian Stern / Fidel Joas
(7) Homologation inspector:	John Aalberg
(8) Name of course:	5 km blue
(9) Competition level for course	WC

Course length:	5,345m	Height difference (HD):	82m	Lowest point:	828m
Course category:	D	Maximum climb (MC):	64m	Highest point:	910m
		Total climb (TC):	188m		



A-climb B-climb C-climb descent undulated terrain



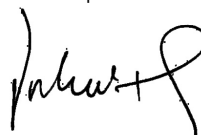
FIS Office


Mignerey, Pierre
FIS International Ski Federation
Blochstrasse 2 / Postfach
CH - 3653 Oberhofen

FIS Stamp



FIS Homologation
Responsible


Vodrazka, Jakub

Date of Issue
02.12.2019
Valid until
30.06.2024

(10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	1	64	34.0
- shorter climbs	5	68	36.2
- steep climbs	1	0	0.0
- descents	9	0	0.0
- undulated terrain	10	56	29.8

(11) Stadium area:

		Indoor working room:	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		
Skitesting area along course/near stadium	yes		
Warm up track near the stadium	yes		

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes	yes	yes	yes	yes
Course suitable for following competition formats with					
a) Classical technique	yes		yes	yes	yes
b) Free technique	yes		yes	yes	yes
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)			yes		

(13) Possibility of snow making:

A new system around the whole course system has been installed

(14) Map Material:

Good

(15) Source of accurate elevation data:

Accurate municipal elevation model and data

(16) Safety considerations:

None, other than standard fences around tunnel openings

(17) General remarks:

New courses for the 2021 Nordic World Ski Championship

(18) Date of first inspection: 2019/10/20

(19) Date of final inspection: 2019/10/21

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb ■	1	2,474	64	64	7.9 - 17.5	11.2	
	total			64			34.0% part of TC
B-climb ■	1	192	12	12	0.0 - 19.8	14.8	
	2	528	14	14	0.0 - 22.4	9.5	C at 638m, PTC: 3m, 23.1%
	3	1,887	17	17	12.2 - 19.2	15.6	
	4	3,149	11	11	0.0 - 13.0	10.3	
	5	4,851	14	14	0.0 - 18.3	14.9	
	total				68		
C-climb ■	total			0			0.0% part of TC
undulated terrain ■	total			56			29.8% part of TC
	total climb			188			