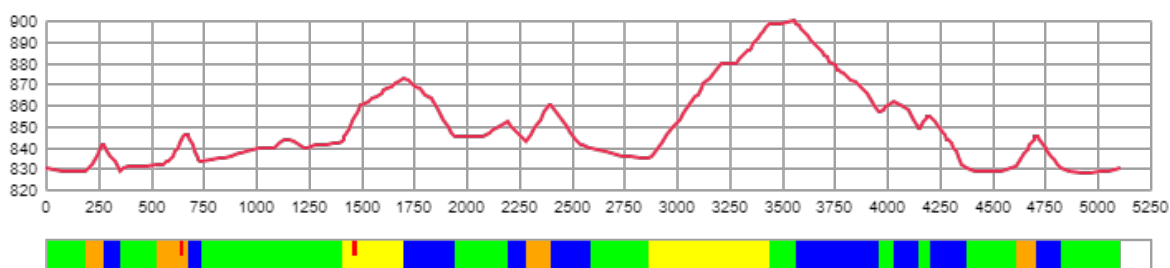




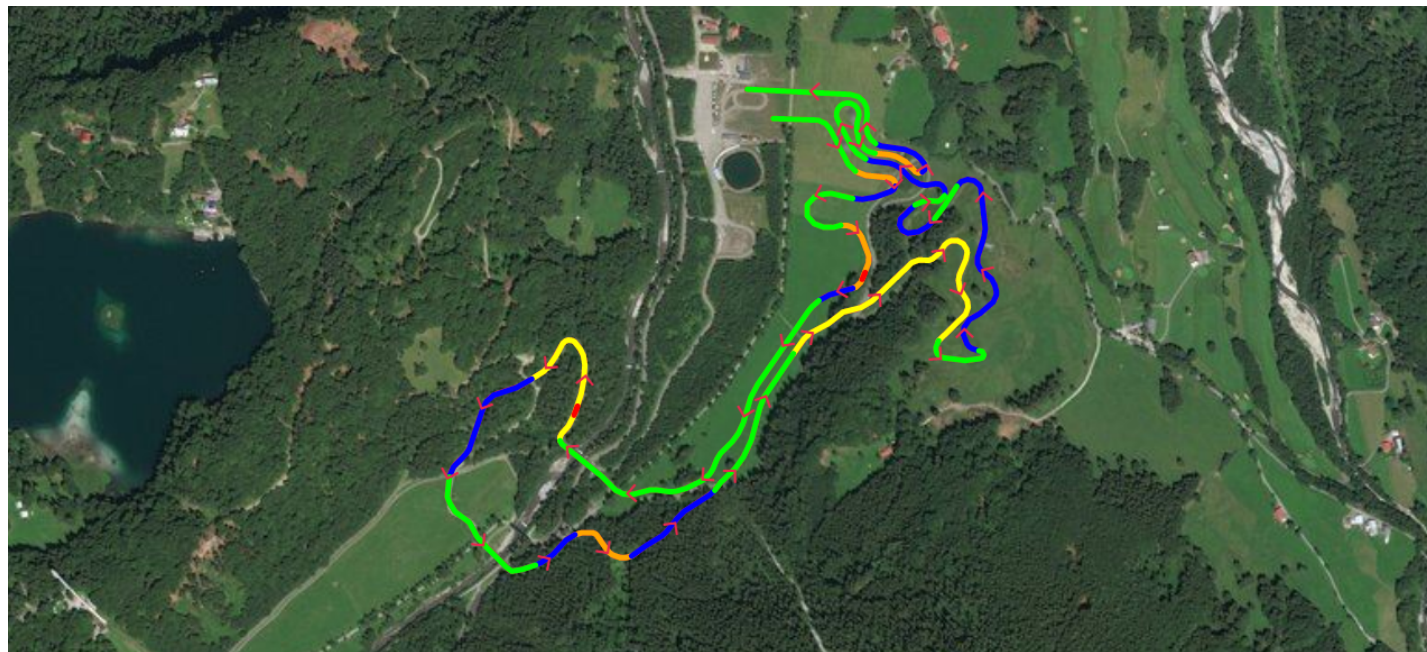
CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE

(1) Registration number:	WC19/125.13/5.0
(2) Name of the competition site:	Cross Country Center Ried
(3) Name of city/region:	Oberstdorf / Allgäu
(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 red
(9) Competition level for course:	WC

Course length:	5,112m	Height difference (HD):	72m	Lowest point:	828m
Course category:	D	Maximum climb (MC):	64m	Highest point:	900m
		Total climb (TC):	191m		



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	2	94	49.2
- shorter climbs	4	57	29.8
- steep climbs	2	0	0.0
- descents	9	0	0.0
- undulated terrain	16	62	32.5

(11) Stadium area:

Fixed stadium area	yes	Indoor working room:	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			
Skiteasting 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	1,407	30	30	4.0 - 26.4	10.1	C at 1,459m, PTC: 4m, 23.5%
	2	2,869	64	64	7.9 - 17.5	11.2	
	total			94		49.2%	
B-climb 	1	192	12	12	0.0 - 19.8	14.8	C at 638m, PTC: 3m, 23.1%
	2	528	14	14	0.0 - 22.4	9.5	
	3	2,283	17	17	0.0 - 19.2	14.2	
	4	4,617	14	14	0.0 - 18.3	14.9	
	total			57		29.8%	
C-climb 	total			0		0.0%	part of TC
undulated terrain 	total			62		32.5%	part of TC
	total climb			191			