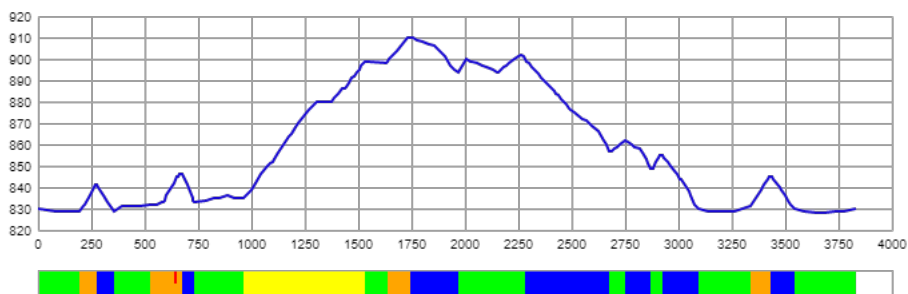




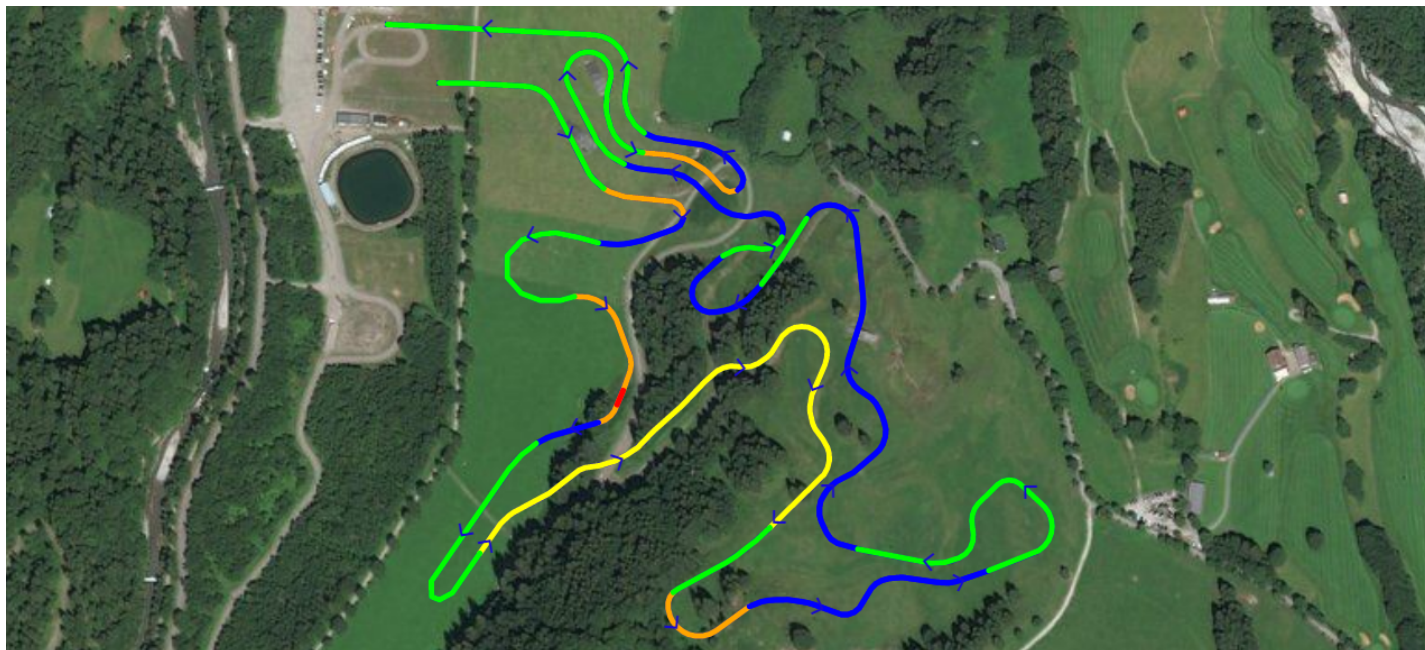
**CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE**

| | |
|---|---|
| (1) Registration number: | WC19/125.09/3.75 |
| (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: | 3.75 km blue |
| (9) Competition level for course | WC |

| | | | | | |
|------------------|--------|-------------------------|------|----------------|------|
| Course length: | 3,832m | Height difference (HD): | 82m | Lowest point: | 828m |
| Course category: | D | Maximum climb (MC): | 64m | Highest point: | 910m |
| | | Total climb (TC): | 151m | | |



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



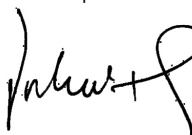
FIS Office


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 | 42.4 |
| - shorter climbs | 4 | 51 | 33.8 |
| - steep climbs | 1 | 0 | 0.0 |
| - descents | 7 | 0 | 0.0 |
| - undulated terrain | 9 | 36 | 23.8 |

(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 | 960 | 64 | 64 | 7.9 - 17.5 | 11.2 | |
| | total | | | 64 | | | 42.4% 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 | 1,635 | 11 | 11 | 0.0 - 13.0 | 10.3 | |
| | 4 | 3,337 | 14 | 14 | 0.0 - 18.3 | 14.9 | |
| | total | | | 51 | | | 33.8% part of TC |
| C-climb ■ | total | | | 0 | | | 0.0% part of TC |
| undulated terrain ■ | total | | | 36 | | | 23.8% part of TC |
| | total climb | | | 151 | | | |