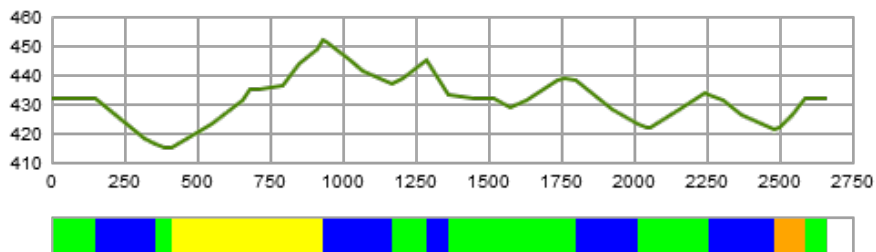




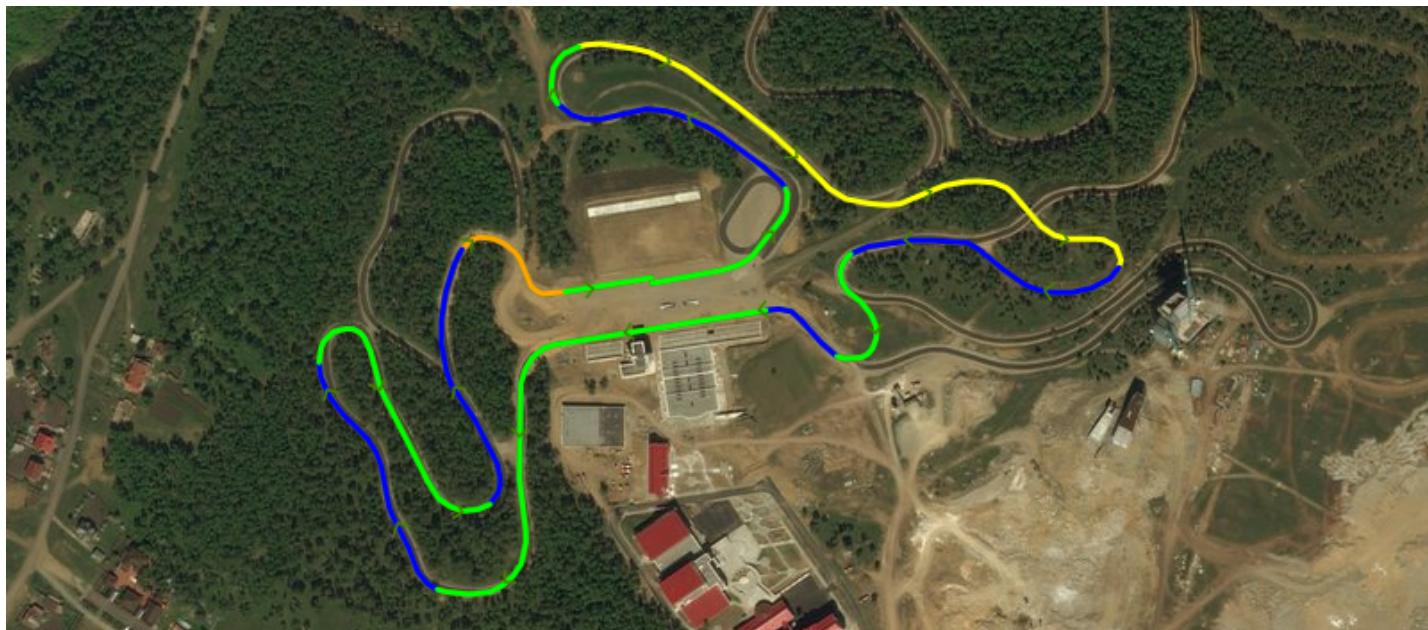
CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE

(1) Registration number: 17/53.06/2.5
(2) Name of the competition site: National ski center
(3) Name of city/region: Schuchinsk
(4) Organizer: Cross-country Skiing Federation of Kazakhstan
(5) National ski association: KAZ
(6) Contact person in the organizing committee: Oleg Kolomeyets
(7) Homologation inspector: Andrey Arsenyev
(8) Name of course: 2,5 red
(9) Competition level for course: COC

Course length:	2,660m	Height difference (HD):	37m	Lowest point:	415m
Course category:	D	Maximum climb (MC):	37m	Highest point:	452m
		Total climb (TC):	78m		



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



FIS Office

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FIS Stamp



FIS Homologation
Responsible

Aalberg, John

Date of Issue
01.11.2017
Valid until
30.06.2022

(10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	1	37	47.4
- shorter climbs	1	11	14.1
- descents	5	0	0.0
- undulated terrain	6	30	38.5

(11) Stadium area:

Fixed stadium area	yes
Fixed building	yes
Temporary stadium	no
Temporary building	no
Good infrastructure (access, parking, media, etc.)	yes
Skitesting area along course/near stadium	yes
Warm up track near the stadium	yes

Indoor working room:

Timekeeping	yes
Announcer	yes
Jury	yes
Race office	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
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:

Snow making is possible

(14) Map Material:

World Imagery

(15) Source of accurate elevation data:

Initially all courses were measured by laser distance measumeter and inclinometer. Course profiles based on these mearures were the source of course elevation data. Next these data were rounded and checked to avoid unexpected results caused by rounding.

(16) Safety considerations:

All downhill are wide enough and good visible. Downhill curves have proper banking. There are no any obctacles such as trees, stones, stubs and light poles outside curves. Bridges and other dangerous places are properly fenced.

(17) General remarks:

All courses pass through the stadium 0.7-1.1 km before finish. It takes some stadium area but great for spectators. Besides all courses have good uphill right before the entry into finish zone. Stadium level is about middle of course high differences.

(18) Date of first inspection: 2017/5/14

(19) Date of final inspection: 2017/8/27

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	1	415	37	37	1.3 - 16.9	7.2	
	total			37			47.4% part of TC
B-climb	1	2,480	11	11	5.7 - 12.3	10.0	
	total			11			14.1% part of TC
C-climb	total			0			0.0% part of TC
undulated terrain	total			30			38.5% part of TC
	total climb			78			