

# **EXPEDITION REPORT KHYAM TSO MASSIF**

**MT. GYAMSHU PEAK6107 MTR (GRID REFERENCE N 33°32.7804' E077°40.4874')**

**MT PT 6047 MTR(GRID REFERENCE N 33°32.2262' E 077°40.4544')**

**MT PT 6084 MTR (GRID REFERENCE N 33°32.2132' E 077°40.5110')**

**MT PT 6095 MTR (GRID REFERENCE N 33°32.1763' E 077°40.5746')**

**MT PT 6016 MTR (GRID REFERENCE N 33°31.7981' E 077°40.5027')**

**MT PT 6047 MTR (GRID REFERENCE N 33°31.5708' E 077°40.3595')**

**MT KHYAM - II 6102 MTR (GRID REFERENCE N 33°31.3995' E 077°39.8333')**

**MT PT 5951MTR**

## 1. **Expedition Details:**

(a) Peak Name :Khyam Massif

(b) Expedition Leader : Colonel Hem Chandra Singh, Principal JIM and WS

(c) Expedition Start Date: 07 July 2025

(d) Summit Date: Mt. Gyamshu on 09July 2025 at 0810 hours,  
Mt. Pt 6047 on 09 July 2025 at 1026 hours,  
Mt. Pt 6084 M on 09 July 2025 at 1048 hours,  
Mt. Pt 6095 M on 09 July 2025 at 1110 hours,  
Mt. Pt 6016 M on 09 July 2025 at 1240 hours,  
Mt. Pt 6047 M on 10 July 2025 at 0710hrs hours,  
Mt. Khyam - II on 10 July 2025 at 0940 hours and  
Mt. Pt 5951M on 10 July 2025 at 1130hours

## 2. **Team Composition:**

Total Team Members: 06

Team Leader: Colonel Hem Chandra Singh, Principal JIM & WS (Summiter)

Members: Sub Maj/ Hony Lt (Retd) Shri Rafiq Ahmad Malik (Summiter)

Hav Sajad Hussain (Summiter)

Hav Ramesh Kumar (Summiter)

Nk (NA) Yogesh (Member)

Nk Bharat Singh (Summiter)

3. **Permission and Notification:**

- (a) As a National Mountaineering Institute, No external agency permission is required.
- (b) Ministry of Defence (DHMI), Army Adventure Wing and Indian Mountaineering Foundation was informed in advance for the conduct of this expedition by JIM & WS.

4. **Expedition Objectives:**

- (a) Promote adventure tourism in the Country especially in border areas of Ladakh (UT) and Jammu Kashmir (UT).
- (b) Igniting the spirit of adventure among participants and spectators alike.
- (c) Divert the energy of youth towards nation-building and adventure sports.

5. **Expedition Itinerary:**

S. NO.	DATE	ACTIVITY	FROM	TO	TIME TAKEN	REMARKS
(i)	07 July 2025	Shifting of Road Head Camp from Rumtse Phu	Road Head	Base Camp (Khyam Tso Lake)	06 hrs	Base Camp Establishment
(ii)	08 July 2025	Recce	Base Camp	Khyam Tso Massif	-	Recce for Summit Plan
(iii)	09 July 2025	Summited Mt Gyamshu	Base Camp Started at 0100hrs	Summit	07hrs	Summited Mt Gyamshu 6107M at 0810 hrs on 09 July 2025 <b><u>Grid Reference</u></b> <b><u>N 33°32.7804'</u></b> <b><u>E 077°40.4874'</u></b> <b><u>Recorded in GPS</u></b>
(iv)	09 July 2025	Summited Mt Pt 6047M	Mt Gyamsu	Summit	2.5 hrs	Summited Mt Pt 6047 M at 1026 hrs on 09 July 2025 <b><u>Grid Reference</u></b> <b><u>N 33°32.2262'</u></b> <b><u>E 077°40.4544'</u></b> <b><u>Recorded in GPS</u></b>
(v)	09 July 2025	Summited Mt Pt 6084M	Mt Pt 6047M	Summit	1/2 hrs	Summited Mt Pt 6084 M at 1048 hrs on 09 July 2025 <b><u>Grid Reference</u></b> <b><u>N 33°32.2132'</u></b> <b><u>E 077°40.5110'</u></b> <b><u>Recorded in GPS</u></b>
(vi)	09 July 2025	Summited Mt Pt 6095M	Mt Pt 6084M	Summit	1/2 hrs	Summited Mt Pt 6095 M at 1110 hrs on 09 July 2025 <b><u>Grid Reference</u></b> <b><u>N 33°32.1763'</u></b> <b><u>E 077°40.5746'</u></b> <b><u>Recorded in GPS</u></b>

(vii)	09 July 2025	Summited Mt Pt 6016M	Mt Pt 6095M	Summit	1.5 hrs	Summited Mt Pt 6016 M at 1240 hrs on 09 July 2025 <b><u>Grid Reference</u></b> <b><u>N 33°31.7981'</u></b> <b><u>E 077°40.5027'</u></b> <b><u>Recorded in GPS</u></b>
(viii)	10 July 2025	Halt for few hours at Pt 5975M	-	-	-	Pitching of Tents for few hours rest
(ix)	10 July 2025	Summited Mt Pt 6047M	Pt 5975 M (Halt Point)	Summit	1 hrs	Summited Mt Pt 6047 M at 0710hrs hrs on 10 July 2025 <b><u>Grid Reference</u></b> <b><u>N 33°31.5708'</u></b> <b><u>E 077°40.3595'</u></b> <b><u>Recorded in GPS</u></b>
(x)	10 July 2025	Summited Mt Khyam – II	Mt Pt 6047M	Summit	2.5 hrs	Summited Mt Khyam - II 6102 M at 0940hrs on 10 July 2025 <b><u>Grid Reference</u></b> <b><u>N 33°31.3995'</u></b> <b><u>E 077°39.8333'</u></b> <b><u>recorded in GPS</u></b>
(xi)	10 July 2025	Summited Mt Pt 5951M	Mt Khyam - II	Summit	2hrs	Summited Mt Pt 5951M at 1130hrs on 10 July 2025
(xiii)	10 July 2025	Successful Descent to Base Camp	Summit	Base Camp	2.5 hrs	Returned to Base Camp at 1330 hrs

## 6. **Summit Description:**

- (a) The Khyam Tso Massif, situated in Khyam lungpa valley of Ladakh, is a majestic mountain range featuring multiple peaks, including Gyamshu (6,107 meters) and Mt. Khyam(6,102 meters), as well as numerous unnamed peaks exceeding 6,000 meters in elevation. This massif offers a challenging climb, characterized by rugged terrain and demanding conditions, while also providing breathtaking views of the surrounding valleys and mountains. The traverse of the Khyam Tso Massif pushed Team JIM&WS to its extreme limits, testing their mental and physical endurance.
- (b) After the successful summits of Mt. Ut Kangri-I and II on July 6, 2025, Team JIM & WS relocated their road head camp from Rumtse Phu to Khyam Tso Lake. The team departed at 0900 hours after closing up camp and took approximately 7-8 hours to reach the base camp, arriving around 1700 hours. Upon establishing the base camp, Team JIM & WS conducted a rescue operation, successfully evacuating a foreign group of two members who were stranded on a rocky ridge due to extreme weather conditions.

- (c) On July 8, 2025, the team conducted a reconnaissance of the Khyam Tso Massif to plan their ascent strategy. The next day, on July 9, 2025, the team began their summit push at 0100 hours, targeting Mt. Gyamshu and its adjacent peaks. The route to the summit involved crossing a flowing mountain stream, followed by navigating through scree and moraine areas. As they ascended, the team encountered extreme winds, and with the first light, snowfall began, making the rocky slope towards the summit risky due to fresh snow and slippery rocks. Due to heavy snowfall, the team set up a temporary bivouac (tent) 100 meters beyond the summit, waiting for the snowfall to subside. After the snow stopped, team JIM & WS successfully summited Mt. Gyamshu on July 9, 2025, at 0810 hours.
- (d) Following the successful summit of Mt. Gyamshu, the team continued their mission to scale the Khyam Tso Massif. The route to the next summit was extremely challenging due to heavy snow accumulation on rocks and boulders, making it slippery and hazardous. Additionally, the team faced extreme winds as they ascended towards the summit. Despite these conditions, the team successfully reached the summit of Mt. Pt. 6047 on July 9, 2025, at 1026 hours. They then continued on, negotiating a gradual slope with an incline of 30° to 40°, and successfully reached the summit of Mt. Pt. 6084 on July 9, 2025, at 1048 hours.
- (e) As they progressed, the team traversed a broken arête and a steep ridge, where there was no suitable area to pitch a tent or set up camp. Undeterred by the hazardous conditions and scree, the team successfully scaled another summit of the Massif, Mt. Pt. 6095, on July 9, 2025, at 1110 hours. The Khyam Tso Massif ridge presented a formidable challenge, with one side covered in snow and glacier, and the other side consisting of rocky and scree chutes. Despite these obstacles, the resilient team of JIM & WS negotiated this hazardous ridge and successfully scaled another summit of the Massif, Mt. Pt. 6016, on July 9, 2025, at 1240 hours.
- (f) After successfully scaling the 05 peaks of the Khyam Tso Massif, the team halted at Pt. 5975 due to snowfall. The team planned for another reconnaissance and rope fixing for the next peaks. Despite the extreme conditions, the team set up a temporary bivouac (tent) on uneven rocky terrain. Due to the scarcity of water resources, the team collected snow and boiled it on a butane stove, showcasing their resourcefulness in extreme survival conditions. The team's morale was boosted by the team lead's encouragement and motivation, enabling them to continue the Khyam Tso Massif mission.

- (g) On July 10, 2025, despite cloudy weather and physical exhaustion the team began their ascent at 0600 hours. The route to the next summit was extremely hazardous, requiring the team to fix ropes for approximately 100 meters to safely negotiate a glacial gradient of 30° to 45°. The fixed ropes enabled the team to cross a loose rock and boulder area securely, and near the ice wall, they anchored themselves to the fixed rope, ensuring a safe passage. The final 50 meters towards the summit presented a challenge due to very loose rocks. After navigating this treacherous terrain, the team successfully scaled another summit of the Massif, Mt. Pt. 6047, on July 10, 2025, at 0710 hours.
- (h) After successfully scaling another peak of the massif, the team moved towards Mt. Khyam-II(6,102m). This peak presented its own set of challenges, including a thin ridgeline littered with large boulders, rocks, and scree, which required the team to rope up for safe passage. Additionally, the team had to negotiate up and down slopes, culminating in a steep scree slope of 40° to 50° just before the summit. Despite these hurdles, the team successfully overcame the obstacles and scaled the summit of Mt. Khyam-II (6,102m) on July 10, 2025, at 0940hours.
- (i) After successfully scaling another peak of the massif, the team moved towards Mt. Pt. 5951. On this peak, they encountered a narrow ridgeline littered with large boulders, rocks, and scree, which they navigated with care. Despite the challenging weather conditions, with cloudy skies and an extreme chill factor, Team JIM & WS persevered and successfully reached the summit of Mt. Pt. 5951 on July 10, 2025, at 1130 hours.
- (j) The ascent to the summits of Khyam Tso Massif is a mix of challenging climbs that take climbers through a demanding terrain of icy fields, big boulders, loose rocks/scree, and narrow rocky arêtes. Climbers also face harsh wind-chill factors during night climbing, and the long, steep arêtes make the climb particularly difficult. However, the summits of both peaks reward climbers with breathtaking, picturesque views of the surrounding landscape, including the Mt. Kang Yatse range, Mt. UT Kangri massif, and Mt. Stok range, among others.
- (k) During the descent, the team negotiated a steep slope marked by loose scree and boulders, including a 300-400 meter glacier area. Team also negotiated a mountain stream near the base camp. The team reached the base camp at 1330 hours and, after a brief rest, set off for the road head camp at 1430 hours. Notably, the massif's initial 05 peaks can be summited by highly skilled climbers in good quality high ankle shoes during the month of July. However, the remaining 03 peaks require more technical

expertise and equipment, including crampons, climbing shoes, and other specialized gears.

7. **Challenges Faced:**

- (a) Hazardous conditions due to big boulders/ rock gapes, loose scree, open and hidden crevasses narrow rocky arête.
- (b) Long approach from Base camp to the summits of the massif.
- (c) Wind-chill factor during climbing and snowfall.

8. **Achievements:**

- (a) Successful summit of Khyam Tso Massif on July 09 & 10, 2025.
- (b) The expedition created a record of first and fastest ascent of 08 peaks of Khyam Tso Massif from Base Camp to Base Camp in 37 hours and 30 minutes.
- (c) Potential to enhance adventure tourism in the country and especially in border areas of Ladakh (UT) and Jammu Kashmir (UT).

9. **Conclusion:**

- (a) The Khyam Tso Massif Expedition 2025 led by Colonel Hem Chandra Singh and a testament to the resilience and determination of the team members from JIM and WS.
- (b) Despite facing challenges by big boulders/ scree, and physical exhaustion, the team reached the summit. This achievement is expected to inspire and attract more youth towards adventure tourism and mountaineering in the country and especially in Jammu and Kashmir (UT).
- (c) The expedition was dedicated to the best Instructors of the Institute and the indomitable human spirit that drives individuals to surpass their limits.
- (d) It served as a learning journey, showcasing the power of calculated risk and faith in achieving great feats.

Jai Hind!

(Hem Chandra)  
Colonel  
Principal, JIM & WS

10. Photographs:

## MT KHYAM TSO MASSIF



PHOTO BY TEAM JIM&WS



PHOTO FROM PEAK VISOR APPLICATION



**PREPARATION OF LOADS FOR KHYAM TSO BASE CAMP**  
**ON 07 JULY 2025 AT 0738HRS**



**BRIEFING BY TEAM LEADER BEFORE MOVE TO BASE CAMP**  
**ON 07 JULY 2025 AT 0800HRS**



**TOWARDS THE BASE CAMP KHYAM TSO LAKE**  
**ON 07 JULY 2025 AT 1700HRS**



**ESTABLISHED BASE CAMP AT KHYAM TSO LAKE**  
**ON 07 JULY 2025 AT 1800 HRS**



**DURING RECCE ON 08 JULY 2025 AT 1140HRS**



**PLANNING OF KHYAM TSO MASSIF ON 08 JULY 2025 AT 1230 HRS**



**SUMMIT BRIEFING BY TEAM LEADER BEFORE MOVE**  
**ON 09 JULY 2025 AT 0100HRS**



**NEGOTIATING HAZARDOUS ROCKY SLOPE NEAR SUMMIT**  
**IN EXTREME WEATHER ON 09 JULY 2025 AT 0500 HRS**



**HALTED IN BIVOUAC DUE TO SNOW FALL AND EXTREME CHILL FACTOR  
100MTRS BEFORE SUMMIT ON 09 JULY 2025 AT 0700HRS**



**TOWARDS THE SUMMIT ON 09 JULY 2025 AT 0805HRS**



**TEAM ON THE SUMMIT OF MT GYAMSHU 6107 MTR**  
**AT 0810 HRS ON 09 JULY 2025**  
**GRID REFERENCE N 33°32.7804' E 077°40.4874' RECORDED IN GPS**



**TEAM LEADER COL HEM CHANDRA SINGH WITH SUMMIT FLAG ON THE**  
**SUMMIT OF MT GYAMSHU 6107 MTR AT 0810 HRS ON 09 JULY 2025**



**HEIGHT RECORDED 6107 MTRS ON 09 JULY 2025 &  
GRID REFERENCE N 33°32.7805' E 77°40.4874' RECORDED IN GPS**

**HEIGHT RECORDED 6107 MTRS &  
GRID REFERENCE  
N 33°32.7805' E 077°40.4874' IN GPS**



**PANORAMA VIEW OF MT GYAMSHU**  
**AT 0810 HRS ON 09 JULY 2025 BY INSTA 360**



**POOJA ON THE SUMMIT OF MT GYAMSHU ON 09 JULY 2025 AT 0844HRS**



**TEAM TOWARDS THE NEXT SUMMIT OF THE KHYAM TSO MASSIF  
ON 09 JULY 2025 AT 0904 HRS**



**NEGOTIATING THE DEADLY RIDGE TOWARDS THE NEXT SUMMIT OF THE  
KHYAM TSO MASSIF ON 09 JULY 2025 AT 0942 HRS**



**TEAM NEAR THE SUMMIT ON 09 JULY 2025 AT 1011 HRS**



**POOJA ON THE SUMMIT OF MT PT 6047 M ON 09 JULY 2025 AT 1022 HRS**



**TEAM ON THE SUMMIT OF MT PT 6047 MTR**  
**AT 1022 HRS ON 09 JULY 2025**  
**GRID REFERENCE N 33°32.2263' E 077°40.4543' RECORDED IN GPS**



**TEAM LEADER COL HEM CHANDRA SINGH HOISTED BHARTIYA TIRANGA ON**  
**THE SUMMIT OF MT PT 6047 MTR AT 1022 HRS ON 09 JULY 2025**



**HEIGHT RECORDED 6047 MTRS &  
GRID REFERENCE  
N 33°32.2262' E 077°40.4544' IN GPS**

**HEIGHT RECORDED 6047 MTRS ON 09 JULY 2025 &  
GRID REFERENCE N 33°32.2262' E 77°40.4544' RECORDED IN GPS**



**NEGOTIATING THE DEADLY SNOW COVERED ROCKS TOWARDS THE NEXT SUMMIT OF THE KHYAM TSO MASSIF ON 09 JULY 2025 AT 1040 HRS**



**TEAM ON THE SUMMIT OF MT PT 6084 MTR  
AT 1048 HRS ON 09 JULY 2025  
GRID REFERENCE N 33°32.2132' E 077°40.5110' RECORDED IN GPS**



**HEIGHT RECORDED 6084 MTRS ON 09 JULY 2025 &  
GRID REFERENCE N 33°32.2132' E 77°40.5110' RECORDED IN GPS**

**HEIGHT RECORDED 6084 MTRS &  
GRID REFERENCE  
N 33°32.2132' E 077°40.5110' IN GPS**



**POOJA ON THE SUMMIT OF MT PT 6095 M ON 09 JULY 2025 AT 1110 HRS**



**TEAM ON THE SUMMIT OF MT PT 6095 MTR  
AT 1110 HRS ON 09 JULY 2025**

**GRID REFERENCE N 33°32.1763' E 077°40.5746' RECORDED IN GPS**



**PANORAMA VIEW OF MT PT 6095 M**  
**AT 1110 HRS ON 06 JULY 2025**



**HEIGHT RECORDED 6095 MTRS &  
GRID REFERENCE  
N 33°32.1763' E 077°40.5746' IN GPS**

**HEIGHT RECORDED 6095 MTRS ON 09 JULY 2025 &  
GRID REFERENCE N 33°32.1763' E 77°40.5746' RECORDED IN GPS**



**TEAM ON THE SUMMIT OF MT PT 6016 MTR**  
**AT 1240HRS ON 09 JULY 2025**  
**GRID REFERENCE N 33°32.7981' E 077°40.5027' RECORDED IN GPS**



**HEIGHT RECORDED 6016 MTRS &  
GRID REFERENCE  
N 33°31.7981' E 77°40.5027' IN GPS**

**HEIGHT RECORDED 6016 MTRS ON 09 JULY 2025 &  
GRID REFERENCE N 33°31.7981' E 77°40.5027' RECORDED IN GPS**



**PANORAMA VIEW OF BIVOUAC (TEMPORARY SHELTER) AT PT 5957 M ON 09 JULY 2025**



**TEAM STATED AT 0600HRS ON 10 JULY 2025 FOR NEXT SUMMIT**



**NEGOTIATING DEADLY SLAB TOWARDS THE NEXT SUMMIT  
ON 10 JULY 2025 AT 0610HRS**



**NEGOTIATING DEADLY BOULDERS TOWARDS THE NEXT SUMMIT**  
**ON 10 JULY 2025 AT 0615HRS**



**TEAM ON THE SUMMIT OF MT PT 6047 MTR**  
**AT 0700HRS ON 10 JULY 2025**  
**GRID REFERENCE N 33°31.5708' E 077°40.3595' RECORDED IN GPS**



**HEIGHT RECORDED 6047 MTRS**  
**ON 10 JULY 2025**

**HEIGHT RECORDED 6047 MTRS&**  
**GRID REFERENCE**  
**N 33°31.5708' E 077°40.3595' IN GPS**



**NEGOTIATING DEADLY GLACIATED RIDGE TOWARDS THE SUMMIT OF KHYAM -II**  
**ON 10 JULY 2025 AT 0750 HRS**



**TEAM NEGOTIATING STEEP SLOPE TOWARDS THE SUMMIT**  
**ON 10 JULY 2025 AT 0900 HRS**



**NEGOTIATING SCREE SLOPE TOWARDS THE SUMMIT**  
**ON 10 JULY 2025 AT 0910 HRS**



**TEAM ON THE SUMMIT OF MT KHYAM – II 6102 MTR**  
**AT 0940HRS ON 10 JULY 2025**  
**GRID REFERENCE N 33°31.3995' E 077°40.8333' RECORDED IN GPS**



**TEAM LEADER COL HEM CHANDRA SINGH HOISTED BHARTIYA TIRANGA ON**  
**THE SUMMIT OF MT KHYAM – II 6102 MTR AT 0940 HRS ON 10 JULY 2025**



**PANORAMA VIEW OF MT KHYAM – II 6102 MTR**  
**AT 0940 HRS ON 10 JULY 2025 BY INSTA 360**



**HEIGHT RECORDED 6102 MTRS ON 10 JULY 2025 &  
GRID REFERENCE N 33°31.3995' E 77°40.5027' RECORDED IN GPS**

**HEIGHT RECORDED 6102 MTRS &  
GRID REFERENCE  
N 33°31.3995' E 077°39.8333' IN GPS**



**NEAR THE NEXT SUMMIT**  
**ON 10 JULY 2025 AT 1110 HRS**



**POOJA ON THE SUMMIT**  
**ON 10 JULY 2025 AT 1130 HRS**



**TEAM ON THE SUMMIT OF MT PT 5951 MTR  
AT 1130HRS ON 10 JULY 2025**



**TEAM LEADER COL HEM CHANDRA SINGH HOISTED BHARTIYA TIRANGA ON  
THE SUMMIT OF MT PT 5951 MTR AT 1130 HRS ON 10 JULY 2025**



**HEIGHT RECORDED 5951 MTRS**  
**ON 10 JULY 2025**



**HEIGHT RECORDED 5951 MTRS**



**PANORAMA VIEW OF PT 5951 MTR**  
**AT 1130 HRS ON 10 JULY 2025 BY INSTA 360**



**TEAM JIM&WS SUCCESSFULLY DESCENDED**  
**AFTER SUCCESSFUL SUMMIT OF MT KHYAM TSO MASSIF**



**GPS TRACKING IN TEAM LEADERS WATCH**  
**ON 09 & 10 JULY 2025**

