
HARISH KAPADIA

Mountaineering and War on the Siachen Glacier

(Plates 14, 15)

For every mountaineer some areas are more attractive than others. For me the lure of the East Karakoram worked like a magnet. I had not visited any trans-Himalayan areas since 1980. But once I had found a trail there, the grey and barren valleys of the East Karakoram became my main area of travel and climbing. What differentiated this area from the others was its rich history. Caravans had passed through here for centuries; Dogra generals had conquered the area and 'The Great Game' was played within its confines. Visiting this region was almost as much an intellectual pleasure as a physical achievement. Amongst all these ranges the Siachen Glacier, with its long history, high mountains and present-day war scenario, became a major attraction.

I had crossed the snout of the Siachen in 1985 for the first time, explored the Terong Valley, climbed peaks and played a small part in its history. I nursed a desire to return there to reach the head of this long glacier. After a great deal of correspondence with several government departments, I got permission to trek there in 1996. We first climbed in a side valley, Terong. When we returned to enter the main glacier, we received the incredible and devastating news that our permits had been withdrawn by a senior commander in the army. Reason and compromise did not work. He wouldn't budge. Our protests followed and as we returned to Leh the army relented and I was asked if we would go back. I refused, stating that we were civilian mountaineers for whom time and mood mattered. We could not go back to the area like soldiers under orders. A critical report followed and I spoke at different gatherings narrating my bitter experience. I was like a hurt child. I had great respect for the Indian army and felt betrayed.

So when I applied to visit the glacier again in 1998 I was apprehensive about obtaining clearance. There was discussion within the army about whether or not to allow us, mainly because of my criticism of the army in the past. But now there was a different general in charge. Disregarding the opinion of his staff officers he decided to send us to the glacier. With my faith in the democratic Indian army restored, I returned to the Siachen Glacier.

Two questions are often asked when I mention the Siachen Glacier, where a war has been raging between the Indian and Pakistani armies since 1984.

Though there are no human settlements nor any productive use of the area, why is this glacier so important to both countries? And, secondly, what are we mountaineers doing in a place where artillery shells are regularly exchanged? The answers to both these questions lie in the geography and history of this glacier. It is said that a nation which does not know its geography is condemned by history. So it is imperative that issues related to this glacier are better understood.

It is commonly believed that before the conflict started in 1984 the Siachen Glacier had been lying in quiet isolation. Given the inhospitable climate of the region, such a belief is understandable, but it is not true. The glacier has had visitors for a long time, both local and foreign.

In the valleys to the west of the glacier live the Baltis, who have an interesting story to tell about the Siachen Glacier, which they called Saichar Ghainri. They say there used to be a small Yarkandi village at the entrance to the Teram Shehr Glacier, where the Yarkandis met the Baltis for trade. (The Workman couple found the walls of such a settlement in 1912.) It so happened that some Yarkandis descended the Ghyari nala and abducted a Balti woman. Seeking revenge, the Baltis sought the help of a famous mullah. He gave them a *tawiz* (amulet) whose power, he said, would punish the Yarkandis. He instructed them to place it on the Bilafond La (pass) and return via a different route, the Nubra Valley. The Balti villagers disregarded the mullah's instructions and returned by the way they had come. Soon a great storm hit the Siachen Glacier, causing immense destruction. It is believed that the storm would have destroyed everything in the glacier had the mullah's directions been wholly followed. As it was, the destruction was not total and the wild roses that grew aplenty near the snout of the glacier and in the lower valleys were spared. It is these roses which give the Siachen Glacier its name – the Place of Roses (in the Balti language, *sia* means 'rose' and *chen* means 'place of').

From the time of W Moorcroft, who passed near the glacier's snout in 1821, the existence, length and location of the Siachen Glacier was a matter of much speculation among Western explorers during the colonial period. In 1848 Henry Strachey became the first Westerner to discover 'Saichar Ghainri' (*ghainri* means 'glacier' in Balti); he ascended it for two miles from its snout in the Nubra Valley. E C Ryall of the Survey of India sketched the lower part of the glacier in 1861, and assigned to it a length of 16 miles.

During his famous second Karakoram journey in 1889, Sir Francis Younghusband (then Colonel Younghusband) approached the area from the Urdok Valley. He was seeking a crossing into the Subcontinent from Central Asia. Following a side valley of the Urdok Glacier, he reached the foot of the Turkestan La. He suspected that this pass, and not the Bilafond La as was commonly believed, was the main axis of the Karakoram. In other words, Younghusband thought that the axis along the Turkestan La (along with the nearby Indira Col) was what separated South Asia from Central Asia.

Defining the actual axis thus meant that several square kilometres of territory would be added to British India at the expense of Chinese Turkestan (now Xinjiang province). Younghusband's explorer's instincts were correct, but since this was still uncharted terrain he could not be sure.

Younghusband's belief was confirmed in 1909 by T G Longstaff who, along with Arthur Neve and Lieutenant Slingsby, was the first to traverse this great glacier. They crossed over the Bilafond La (or Saltoro Pass, as Longstaff called it then) and named the glacier in the east Teram Shehr ('Destroyed City') in keeping with the legend of the mullah which was narrated to them by their Balti porters. The peaks there were named the Teram Kangri group. They then retreated by the same route and went down the valley and approached the Siachen Glacier via the Nubra Valley. Longstaff climbed up from the Siachen snout in the south and observed the same peaks as he had identified from the the Bilafond La. This was conclusive proof of the length of the Siachen Glacier and the actual location of the Turkestan La – an important discovery as it established the true dimensions of the Karakoram. What he wrote in his *This My Voyage* is often quoted:

Younghusband was a true prophet. Colonel Burrand of the Survey had suspected the truth. The avalanche-swept pass, whose foot Younghusband had reached twenty years before, *was* on the main axis of the Karakorum range which thus lay miles farther north than had been believed. We had stolen some 500 square miles, from the Yarkand river system of Chinese Turkestan, and joined it to the waters of the Indus and the Kingdom of Kashmir.

The next important explorers to visit the Siachen Glacier were the famous Workman couple. Fanny Bullock Workman and William Hunter Workman were Americans who had a special interest in the exploration of the Karakoram, and they focused their attention on the Siachen Glacier in the years 1911 and 1912. Entering via the Bilafond La, the Workmans camped on the glacier with a large entourage of porters and two Alpine guides. This group spent more than two months on the glacier and they climbed many peaks and visited almost all the corners of the upper Siachen. Grant Peterkin, a surveyor attached to this expedition, surveyed the glacier thoroughly and named a few peaks, including Apsarasas and Ghent. Names like Sia La, Junction Peak, Hawk, Tawiz and a few others were given by this expedition. It was the Workman team which visited and named Indira Col (lowest point on a ridge) after the Hindu goddess, Laxmi, one of whose many names is Indira. (The general supposition that this col was christened after Indira Gandhi, who was the prime minister when the Indian troops captured it in 1984, is erroneous.)

In 1929 Dr P C Visser of the Netherlands, on his fourth trip to the Karakoram, explored the two Terong glaciers and the Shelkar Chorten



glacier, all unknown until then. In his group were Rudolf Wyss and Khan Sahib Afraz Gul of the Survey of India, who stayed in the Terong Valley and completed the surveying and naming of the main peaks in the lower part of this great glacier. In the same year, the Duke of Spoleto's Italian expedition crossed the Karakoram by the Muztagh Pass and reached the Turkestan La from the north. They descended from the Turkestan La after discovering the Staghar and Singhi glaciers.

The survey and exploration of the Siachen was completed a year later by another Italian, Giotto Dainelli. Recounting his journey up to the Teram Shehr glacier junction through the Nubra Valley in the *Himalayan Journal*, Dainelli wrote:

... thus reaching the Siachen tongue with all my baggage, a caravan of seventy coolies and six and a half tons of food for the men, carried by an additional caravan of ponies and supplementary coolies. On the 9th of June – exactly two months after my departure from Florence – I was heading for my first depot up the glacier. I hope my English colleagues will appreciate this rapidity of execution, which I consider a record!

(Compare this with present schedules; one can reach the glacier's snout within three days from Delhi without taking a single step.)

Dainelli, with a Miss Kalau as his only companion, stayed at the Teram Shehr junction and carried out various geological surveys. He could not return by the same route owing to the flooding of the Nubra Valley in the lower reaches. So he crossed over to the Rimo Glacier in the east by a 6200m pass which he named Col Italia. The Second World War and the turmoil of Indian Independence put an end to all activities in this area for a few decades. After the Indo-China War of 1962 the entire area became 'restricted', even for Indian climbers, although it is known that some parties from Indian security agencies did visit the Bilafond La.

The ambiguity about the exact delineation of the border is the cause of today's conflict. The 1949 Indo-Pakistan agreement demarcated the cease-fire line. It extended up to the point known as NJ9842 near the Shyok River, after which the line moved 'thence north to the glaciers', leaving the boundary vague.

The one opportunity to resolve this uncertainty came during the 1972 Shimla talks. It can be safely said that there might not have been any fighting on the Siachen if, during those talks, Indira Gandhi had persuaded the Pakistani prime minister Zulfikar Ali Bhutto to agree to demarcate the borders along the Saltoro Ridge. A desperate Bhutto pleaded with the Indian prime minister to be trusted to do this at a later date, as he did not want to antagonise his generals. '*Aap mujhpe bharosa Kijiye.*' Trust me, he is reported to have said.

In spite of the imprecise line of control, between 1972 and 1983 Pakistan encouraged and permitted many foreign expeditions onto the Siachen Glacier. These expeditions, accompanied by Pakistani army liaison officers, generally crossed over the Gyong La, Bilafond La or Sia La to enter the glacier, and climbed many peaks on the glacier. It was on the strength of these climbs that Pakistan had laid claim to the glacier. However, it should be noted that, apart from the any political statement made by the presence of these expeditions, they were able to achieve explorations and climbs of the highest order. Peaks like Teram Kangri, Singhi Kangri and others were climbed in the area.

During this period the Indian army also sent three expeditions to the glacier. Two of these were led by the well-known climber Col N Kumar. They reached Indira Col and climbed several other peaks including Saltoro Kangri and Teram Kangri. The fact that these expeditions in 1978, 1980 and 1981 took place was made public only in 1983. The Indian government attempted to pass them off solely as mountaineering ventures but their true purpose was pretty obvious. Maps soon began to be published in Europe showing the extended line of control joining the Karakoram Pass in the east following the Pakistani claim. These maps conceded the entire Siachen Glacier to Pakistan, and showed Pakistan and China sharing a long common border to the east of Siachen. In 1984 Pakistan gave permission to a Japanese expedition to attempt Rimo, a peak located in a side valley east of the Siachen and overlooking parts of Aksai Chin. Such an expedition would have linked Pakistan-controlled Kashmir with China, along the historic trade route that leads to Chinese Turkestan over the Karakoram Pass. The Indian army decided to take action to prevent the expedition from proceeding, and thus began the Siachen imbroglio.

Soon after India occupied positions on the glacier, the first Indian mountaineering expedition arrived in the Siachen to counter the policy adopted by Pakistan in the past. The following year, in 1985, an Indo-British expedition led by myself and Dave Wilkinson was given permission to climb Rimo by approaching it from the Nubra Valley in India. Their success, together with the international publicity it generated, created an awareness that the area was controlled by India. In 1986 an American team reached the Indira Col.

Mountaineering on the main glacier ceased until 1996, when my team from Bombay arrived with full clearance from the Indian government, but was turned back. However, after protests and a critical report, the situation was rectified within a year and it was decided to allow Indian mountaineers onto the glacier. In 1997 an Indian Women's team, led by Bachendri Pal, the first Indian woman to climb Everest, traversed the glacier and stood on India Saddle, a point some seconds north of Indira Col.

This was the situation when we returned to the glacier to complete our unfinished venture.



14. Unnamed spire rising on the Siachen Glacier. (*Harish Kapadia*) (p51)



15. The Saltoro Kangri Peaks off the Siachen Glacier. Peak I (7742m) was climbed by the ridge on the left. Peak II (7705m) is one of the highest unclimbed peaks in the world today. (*Harish Kapadia*) (p51)

Rose Expedition 1998

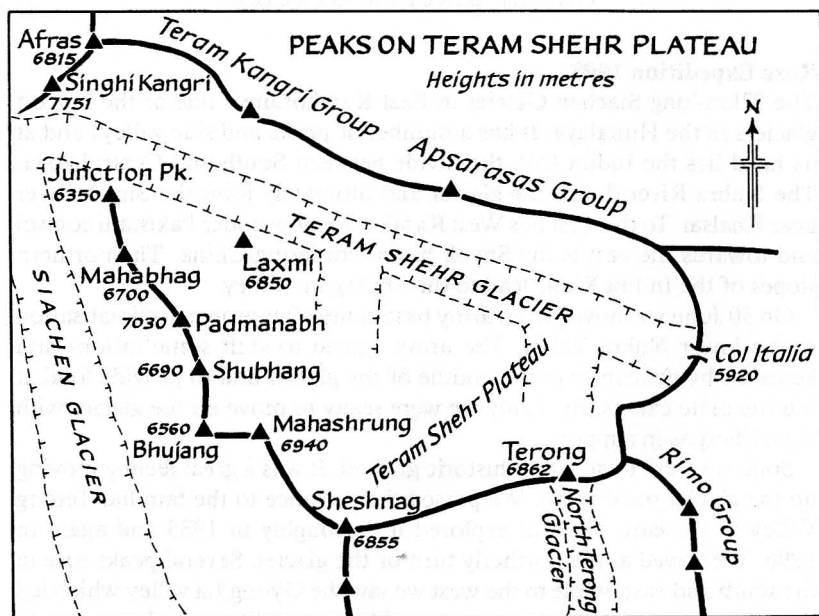
The 72km-long Siachen Glacier in East Karakoram is one of the longest glaciers in the Himalaya. It has a number of peaks and side valleys and at its head lies the Indira Col, the divide between South and Central Asia. The Nubra River drains the glacier and ultimately joins the Shyok River near Khalsar. To the west lies West Karakoram now under Pakistani control and towards the east is the Shyok basin, bordering China. The northern slopes of the Indira Ridge lead to the Shaksgam Valley.

On 30 June we moved to an army base camp after proper acclimatisation in the lower Nubra Valley. The army agreed to shift some rations and kerosene by helicopter to the middle of the glacier and to provide food at intermediate camps. By 3 July we were ready to move up the glacier with eight Sherpas in support.

Soon we were treading on historic ground. It was a great feeling moving up the glacier once again. We passed the entrance to the familiar Terong Valley in the east. We had explored it thoroughly in 1985 and again in 1996. We stayed at the northerly turn of the glacier. Several peaks rose in the south and east, while to the west we saw the Gyong La valley which led to the famous pass of the same name. Many expeditions had come up to Siachen by this pass. In the next seven days we gradually built up our supplies, moving our equipment and specialised food up the glacier through three camps. These camps were on the moraine, as the snow had melted. We were camping on rocky ground everywhere. After the third day we saw several groups of peaks rising in the north-east. We saw the massive Singhi Kangri (7751m), justifying its name *Singhi* ('difficult'). In the same group was Afraj (6815m) ('one who leads others'). Khan Sahib Afraj Gul was an Indian Surveyor who visited the area in 1935 with the Visser expedition and had named several peaks in the area. We have named this central peak of the glacier after him. From the middle of the glacier the view was stupendous. In one sweep we could see the upper Siachen Glacier leading to India Saddle and the Indira Col. In the east rose the gentle Teram Shehr Glacier, with Junction Peak rising from the only green meadow on the edge of the glacier. To our immediate east rose the peaks at the edge of the Teram Shehr Plateau. Bullock Workman had named one of the peaks 'Laxmi' (wife of Vishnu and goddess of wealth). As Lord Vishnu is God of preservation we chose to name some of the peaks after him: like Padmanabh (7030m), the highest peak on the Teram Shehr ('destroyed city') Plateau. It is hoped that Vishnu will protect and prevent further destruction there.

Teram Shehr Glacier

As well as traversing the entire glacier, our expedition had two other aims. One was to reach Col Italia at the head of the Teram Shehr Glacier and attempt Padmanabh (7030m). A good route by which to approach the Teram Shehr Glacier was opposite the famous 'Kumar Camp'. A wide gully flowed



down from the Teram Shehr onto the Siachen Glacier. On the right of the gully were gentle slopes, the only green slopes in the area. These could possibly have been the site of the settlements mentioned by the Workmans. The best way to approach the Teram Shehr Glacier was via this gully, which would save us a long roundabout approach. But the 2.5kms across the Siachen Glacier was not considered safe and had to be crossed under cover of darkness to avoid the risk of being caught in the shelling from across the border.

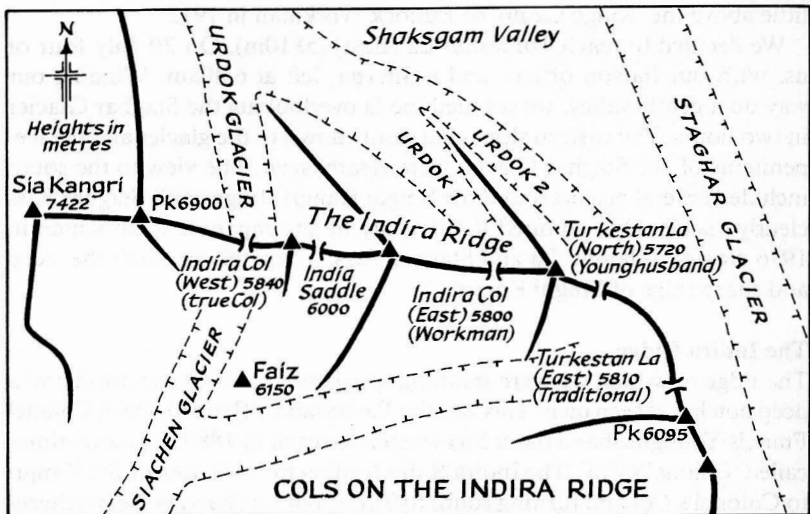
So it was decided that Divyesh and Cyrus, with support, would attempt the peaks on the Teram Shehr plateau directly across from Camp 3 which was below. They were to follow a ridge line of Bhujang (6560m) at the edge of the Teram Shehr plateau and then make their way to the base of Padmanabh. Any thought of reaching Col Italia had to be abandoned. Throughout our stay we were always aware of being in a war zone, with daily artillery firing across and above our route. Helicopters were flying and we met soldiers on their way down, tired and haggard. It is a very different playground for mountaineering.

First ascent of Bhujang (6560m) on the Teram Shehr plateau

After we had left for Indira Col the climbers descended to Camp 3 to attempt the peak. From 10 to 14 July they built up a base camp across the main Siachen Glacier, on its eastern bank. On 15 July they climbed over loose scree and mud slopes and reached the steep ridge descending from Bhujang (6560m). At about 5570m they camped at a sheltered spot with a grand view of the peaks and glaciers around.

After the weather cleared they moved on 18 July to the last camp, now within reach of peak 6560m. Starting early and moving fast, Cyrus and Divyesh climbed the initial 500m to the point where the ropes and equipment had been left earlier. The Sherpas moved up the rock route along the ridge. From this point they found a safe passage to traverse onto the col. The route from the col to the top was an easy-angled climb over snow with a few patches of ice. They were at the summit by 11.30am.

This was the first peak climbed on the Teram Shehr plateau. it rose like a serpent and was christened 'Bhujang' after the legendary serpent associated with Lord Vishnu.



To Indira Col

In the meantime the main team moved up the glacier, which is completely snow-bound even through the summer months. Almost 30 to 40ft of snow covers the entire glacier in winter and the temperature plunges to below -40°C . Although we were visiting the glacier during the best time of the year and to the easiest part of the glacier, the cold was harsh and the difficulties were evident. The glacier flattens out ahead of its centre. We passed a side-entrance leading to Bilafond La ('butterfly-shaped glacier') in the west. This was the Lolaphond Glacier (named after Dr Tom Longstaff). It was small and flat and joined the Siachen after a small expanse. The historic peak Tawiz (6400m) dominated the sky. To the north-west another historic peak, Hawk (6754m), raised its head and guided us all the way to the head of the glacier. The sight of the Saltoro Kangri peaks (7742m and 7705m) rising above the Peak 36 glacier was unforgettable. Their sheer size and the difficult rock walls on their slopes make them challenging objectives. Saltoro Kangri II (7705m) is one of the highest unclimbed peaks in the world.

After four more camps we were nearing the head of the glacier. There were not many difficulties except for a few crevasses. We walked in short marches in excellent weather. A little while later we passed another valley in the west leading to Sia La and Conway Saddle. The Siachen Glacier was now broad and on its eastern edge rose two shapely pinnacles (Staghar Towers I and II). There was a deep notch to its south. This was the Staghar Pass through which a Japanese expedition had crossed to the east to make the first ascent of Singhi Kangri. Soon we neared our goals, Sia Kangri I (7422m) and Sia Kangri II (7092m, formerly known as 'Hardinge'). Their walls were gigantic and threatened to throw down avalanches. All camps were carefully placed away from them. Our last camp on the glacier was a little above the 'Ridge Camp' of Bullock Workman in 1912.

We decided to reach Turkestan La (East) (5810m). On 20 July four of us, with our liaison officer and a Sherpa, left at 6.30am. Winding our way up a gentle valley, we reached the la overlooking the Staghar Glacier in two hours. The eastern slopes led gently down to the glacier and the ice-penitents of the Staghar Glacier were clearly seen. The view to the south included several peaks around the Singhi Kangri Ridge, with Staghar Pass clearly visible. One admired the tenacity of the Japanese team which in 1976 crossed Bilafond La and Staghar Pass, ultimately to climb the steep and sharp ridge of Singhi Kangri.

The Indira Ridge

The ridge on which we were standing rose gently towards the north and a deep notch was seen on it. This was the Turkestan La (North) which Colonel Francis Younghusband (later Sir) wanted to reach in 1889. It is sometimes called 'Colonel's Col'. The Indira Ridge leading from the foot of Sia Kangri to Colonel's Col and turning south to Turkestan La (East) is the northernmost ridge of India at present and it forms a major divide between South and Central Asia. The main Indira Col (West) is located at the foot of the eastern ridge descending from Sia Kangri. It is here, exactly, that the heads of the Siachen and Urdok glaciers meet. This col was recorded as having been reached by Col N Kumar's team in 1981 and again by the Americans in 1986. On the same ridge a point of 6000m is erroneously marked on the present map as 'Indira Col'. It is a steep saddle and by no stretch of the imagination can it be called a col, which is the lowest point on a ridge. We proposed calling this point 'India Saddle'. Further east lies the Indira Col (East) which was reached by the Bullock Workman expedition in 1912. The easternmost pass on this ridge is Turkestan La (North) which is an easy pass on both sides. Younghusband reached the foot of this pass in 1889. The ridge turns south from here and Turkestan La (East) is located a little to the south.

Reaching the Northern Points

On 22 July we started at 6.30am and walked northwards on crisp snow and

a gently rising glacier. After turning around the peak Faiz, 6150m ('one who is at the top') we saw a wide bowl opening up in front of us. Facing us was the Indira Ridge and a panoramic view. To the north was Indira Col (West), the main Indira Col.

I decided to reach this col with Sherpa Pemba Tsering. After a walk of about two hours we were at the pass. Here we made a safe anchor and walked upon the northern cornices to look down at the Urdok Glacier. This beautiful flat glacier led northwards to join the Shaksgam River which was visible. Several peaks were visible but unfortunately Gasherbrum I was in clouds. To the north was Chinese Turkestan where trekkers in recent years have roamed freely. As well as a political division we were standing on a major geographical divide too. The waters from this col drained southwards into the Siachen glacier and the Nubra, Shyok and Indus rivers to merge with the warm waters of the Arabian Sea. Waters to the north drained into the Urdok glacier and the Shaksgam, Yarkand, Tarim and Qyurug rivers to merge with the Lop Nor lake.

The other members of our team, Vijay Kothari, Kaivan Mistry, Vineeta Muni and Capt Suhag, climbed towards the India Saddle. After a steep slope, where they had to use crampons, they stood on the northernmost point of India and enjoyed the same sense of history as we did. All of us gathered at the camp by afternoon. It had taken us a walk of 98 kilometres and 12 days to reach the Indira Col (20 days in all, including days for ferrying loads and resting). The glacier rose from 3550m to 5840m, a mean rise of 1:31 over a distance of 72km, the geographical length of the glacier. Indian climbers had finally arrived on the glacier.

Rare rose

For the past 14 years soldiers of the Indian Army have been in the Siachen. The army lives on the glacier under severely restricted conditions. Supplies are taken up by helicopter but there is always a shortage of air transport, sometimes even to evacuate the injured. Under such circumstances it is hardly surprising that the glacier is suffering severe environmental strain. Much of the garbage is put into crevasses or dumped on rocks and snow. In winter, all this is covered under a thick layer of snow and the entire area appears like a beautiful white sheet. But come summer, all the cans, drums and human waste come to the surface and litter is seen everywhere. The army cannot burn the garbage on the glacier, and neither can it destroy it there, much less bring it down.

Some serious thinking about the ecological conditions on the Siachen Glacier needs to be done. The war has taken a heavy toll of men and materials on both sides. It is an impasse in which no side seems to be gaining. The only solution to save this great wilderness is to stop the war. This is a matter for the governments of India and Pakistan to consider. As a mountaineer and lover of this glacier I can only pray that some steps are taken to conclude this never-ending war and save the glacier from

destruction. It is hoped that the powers-that-be will listen to the anguish of the glacier and the soldiers serving on it.

The mullah, whose *tawiz* had destroyed the glacier had made another prediction: if, due to human folly, the storm did not cause total destruction of the glacier, another 'storm' may visit the glacier in a century to complete the job. This war seems to be fulfilling his prediction.

Hopefully, someday soon, there will be peace on the Siachen glacier: roses will grow wild, ibexes will roam and mountaineers will be able to explore and climb freely.

*How many deaths will it take till he knows
that too many people have died?
The answer, my friend, is blowin' in the wind,
The answer is blowin' in the wind.*

(Bob Dylan)

SUMMARY

<i>Area</i>	The Siachen Glacier, East Karakoram
<i>Members</i>	Harish Kapadia (leader), Vijay Kothari, Cyrus Shroff, Divyesh Muni, Vineeta Muni and Kaivan Mistry with Captain Ashish Suhag (liaison officer).
<i>Period</i>	From 20 June to 3 August 1998
<i>Sponsored by</i>	The Mountaineers, Bombay
<i>Result</i>	The expedition approached the Siachen Glacier from its snout. One party reached the Indira Col (West), India Saddle and Turkestan La (East). Another party made the first ascent of Bhujang (6560m) on the edge of the Teram Shehr Plateau.

Passes and Peaks reached/climbed by the Rose Expedition 1998

Turkestan La (East), 5810m

Reached on 20 July by Harish Kapadia, Kaivan Mistry, Vijay Kothari, Vineeta Muni, Captain Ashish Suhag and Pemba Tsering.

Indira Col (West), 5840m

Reached on 22 July by Harish Kapadia and Pemba Tsering.

India Saddle, 6000m

Reached on 22 July by Kaivan Mistry, Vijay Kothari, Vineeta Muni and Captain Ashish Suhag.

Bhujang Peak, 6560m

Reached on 20 July by Divyesh Muni, Cyrus Shroff, Kusang Dorjee, Samgyal, Pasang and Pema Sherpa.

History of the Siachen Glacier, 1821-1998

- 1821 W Moorcroft passed near the snout of the Siachen Glacier and reported its existence.
- 1835 G T Vigne approached it from the west over Bilafond La but never guessed its existence.
- 1848 Henry Strachey discovered and established the existence of the Siachen Glacier and ascended it for two miles.
- 1848 Dr T Thompson visited the snout.
- 1849-50 F Drew approached the glacier and wrote about it in his famous book *Ladakh*.
- 1862 E C Ryll of Survey of India sketched the lower part of the glacier and assigned to it a length of only 16 miles.
- 1889 Sir Francis Younghusband reached the foot of Turkestan La (N) from the north. He observed that the glacier was long and believed that this pass must be on the major Central Asian divide.
- 1907 Sir Sidney Burrard published a map of the Himalaya. It did not include Siachen though he mentioned the possible existence of a large glacier at the head of the Nubra Valley.
- 1908 Dr Arthur Neve and D G Oliver reached the snout and explored Mamostong Kangri.
- 1909 Dr Tom Longstaff, Dr Arthur Neve and Lt A M Slingsby, later joined by Capt D G Oliver, first came over the Bilafond La and later over the Siachen snout to establish the length of the Siachen Glacier and the exact location of various passes. This was the pioneering effort which established the true length and nature of the glacier.
- 1911-12 The Workman Expedition came over Bilafond La in the west and spent almost two months on the the glacier. They named many peaks and passes and climbed a few peaks. Grant Peterkin, attached to this expedition, surveyed the glacier.
- 1911 V D B Collins and C S McInnes of Survey of India surveyed Teram Kangri and other peaks.
- 1913-14 Filippo De Filippi surveyed Rimo glacier system and published a map.
- 1929 Dr P C Visser, Netherlands expedition, surveyed Terong valleys and crossed the snout to Gyong La. He was accompanied by the Surveyor Khan Sahib Afraz Gul who completed the detailed survey of the entire glacier.
- 1929 Duke of Spoleto expedition reached Indira Col (East) from the north and discovered Staghar and Singhi glaciers.
- 1930 G Dainelli, Italian expedition, stayed two months at Teram Shehr junction. He approached it starting from Bombay and through the Nubra Valley. As the Nubra River was flooded later, he crossed Col Italia and returned via Saser La.
- 1934 G O Dyhrenfurth, International expedition, made the first ascent of Sia Kangri.

- 1935 A British expedition led by J Waller with John Hunt attempted Saltoro Kangri. They camped on the Peak 36 glacier.
- 1939 Lt Peter Young visited Gyong La on Shikar.
- 1956 An Austrian expedition led by F Moravec climbed Sia Kangri West.
- 1957 Imperial College British expedition led by Eric Shipton climbed Tawiz and visited several passes.
- 1961 An Austrian expedition led by E Waschak made the first ascent of Ghent.
- 1962 Japanese-Pakistan expedition led by T Shidei made the first ascent of Saltoro Kangri I.
- 1972 The 'Shimla Agreement' was signed between India and Pakistan. It failed to demarcate clearly the border along this glacier.
- 1974 A Japanese expedition led by T Tanaka attempted Sherpi Kangri II via S ridge. This was the first expedition allowed from Pakistan after the 'Shimla Agreement'.
- 1974 An Austrian expedition led by W Stefan climbed Sia Kangri from the SW.
- 1974 A Japanese expedition led by G Iwatsubo approached K12 from the west. Two members reached the summit but died during the return and disappeared without trace.
- 1975 A British expedition led by D Alcock attempted Sherpi Kangri.
- 1975 A Japanese expedition led by Y Yamamoto climbed K12 by the same route to search for the missing summiters. The search failed.
- 1975 A Japanese expedition led by H Katayama made first ascents of Teram Kangri I and II, coming over the Bilafond La. This was the first expedition to cross over into the Siachen Glacier from the Bilafond La with permits from Pakistan.
- 1975 Japanese expeditions led by S Yamamoto attempted Saltoro Kangri I.
- 1976 A Japanese expedition led by H Hirai made the first ascent of Sherpi Kangri.
- 1976 A Japanese expedition led by H Misawa made the first ascent of Apsarasas I, crossing over the Bilafond La.
- 1976 A Japanese expedition led by H Saito came over the Bilafond La, crossed Staghar Pass and made the first ascent of Singhi Kangri from the north.
- 1976 An Austrian expedition led by Gunther Schutz crossed over the Bilafond La and attempted Saltoro Kangri II.
- 1977 An Austrian expedition climbed Ghent NE From the Kondus Glacier.
- 1978 An Indian Army expedition led by Col N Kumar approached from Nubra and climbed Teram Kangri II. This was the first Indian expedition to enter the glacier from the Nubra Valley after the 1930 Italian expedition by G Dainelli (though Indian security parties have reportedly visited the glacier as far as the Bilafond La).
- 1978 A Japanese expedition led by H Kobayashi climbed Ghent NE from the Kondus Glacier.

- 1979 A Japanese expedition led by S Hanada crossed over the Bilafond La and made the first ascent of Teram Kangri III.
- 1979 A Japanese expedition led by R Hayashibara climbed Sia Kangri from the Conway Saddle, descended its S face to the Siachen Glacier. They trekked out via Bilafond La.
- 1980 An Indian Army expedition led by Brig K N Thandani climbed Apsarasas I.
- 1980 A West German team led by B Scherzer climbed Ghent.
- 1980 An American team led by Galen Rowell traversed the Siachen Glacier during the Karakoram Ski Traverse of major glaciers.
- 1981 A Dutch expedition attempted Saltoro Kangri II from the west.
- 1981 An Indian army expedition led by Col N Kumar reached the upper glacier via the Nubra Valley. They climbed Saltoro Kangri I, Sia Kangri I, reached Indira Col (West), Sia La, Turkestan La and Saltoro Pass (Pk 36 glacier pass).
- 1983 A few trekking parties crossed over Bilafond La from the west.
- 1984 An Indian army expedition led by Col Prem Chand climbed K12 from the Siachen Glacier traversing from the west.
- 1984 On 14 April the Indian army gained control of the western heights of the Saltoro Ridge, a commanding position from which to defend the area. This was the beginning of the 'Glacier War' now in its 14th year.
- 1985 The first expedition to this area was allowed soon afterwards. An Indo-British expedition led by Harish Kapadia (with Dave Wilkinson) explored and climbed peaks in the Terong group. They approached from the Siachen Glacier, climbed Rimo III and attempted Rimo I.
- 1986 Sia Kangri was climbed by an Indo-American expedition led by Maj K V Cherian and Leo Lebon. They traversed the glacier. Seven Indians reached the summit and Americans reached Indira Col (West).
- 1988 The first ascent of Rimo I was made by an Indo-Japanese team led by Hukam Singh and Yoshio Ogata. They approached from the Terong Valley and Ibex Col.
- 1988 Apsarasas I was climbed by an Indian army team. Leader and details not known.
- 1989 Rimo II first ascent, and Rimo IV second ascent. These peaks were climbed by an Indo-British team led by Sonam Palzor and Doug Scott. They approached from the Siachen snout and the Terong Glacier.
- 1992 An Indian army team led by Col M S Gill climbed Teram Kangri I. No details available.
- 1996 After closure for almost ten years (since 1986) the first civilian team was given permission to climb on the upper Siachen Glacier. A team from Bombay, led by Harish Kapadia, climbed in the Terong Valley at first. As they were about to enter the upper Siachen Glacier, the army cancelled their

permits without giving any reason and they were forced to turn back. Their critical report made a serious impact.

- 1997 An Indian Women's team, with Ms Bachendri Pal as leader, traversed the Siachen Glacier and reached the India Saddle in early September.
- 1998 The Bombay team, led by Harish Kapadia, returned to the glacier. They reached Indira Col (West), India Saddle and Turkestan La (East). The team also made the first ascent of Bhujang Peak (6560m) on the Teram Shehr plateau, the first ever peak to be climbed on this vast plateau.