Contents

----- Section - I -----

Education and Health Care

1. The Crunch in Human Resource in Indian Agriculture
2. Knowledge Sharing for Agricultural Research and Development in India
3. Ten Commandments for Illness to Wellness
4. Fruits and Vegetables as Food and Medicine
5. Health Promoting Phytochemicals in Vegetables
——————————————————————————————————————
Economic Development
6. Dynamics of Horti-Business Linking the Farmers with Market
7. Linking Farmers to Market, Experiences of the Farmers
8. Perishable Producer-Processor Collaboration: A Challenge
9. The Right to Food Versus the Right to Trade: Shaping the Contours of the Debate
10. Strategies to Supply Injury Free Fruits and $$ Vegetables to Markets and Processing Units . 40 $$ Bangali Baboo
11. Entrepreneurship and Brand Development
12. Technology Infusion through Contact Farming: Description of Success Story in Potato Crop 57
Singh, B.P., Rajesh K. Rana and Manoj Kumar
13. Linking Farmers to Markets Through Hi-tech Horticulture – A Case Study of Cut Flowers and Exotic Vegetables from Pune



14.	Marketing and Export of Subtropical Fruits-Status and Prospects	58
15.	Cold Chain for Horticultural Produce: Quality Produce for Export /Domestic Market 7. Patil R.T. and Gupta R.K.	78
16.	Oil Palm Marketing and Export	33
17.	Export of Grapes: Issues and Strategies	36
18.	Linking Flower Growers to Market-an Innovative Approach)(
19.	Climate Change - Adaptation and Mitigation Strategies for Environmentally Sustainable Livestock Production)(
20.	Protected Cultivation of Vegetables – An Alternative for High Profitability)4
21.	Prospects of IPM for QualityVegetable Production	1(
22.	$\begin{tabular}{ll} \textbf{Management of Plant Genetic Resources vis-a-vis IPRs and Technology Transfer in India . 13} \\ \textit{S. Mauria} \end{tabular}$	18
23.	Fruits & Vegetables Sector Marketing – An Overview	23
24.	Promoting Hortico-business in India	36
25.	Resilient Food and Nutrition System: Analysisng the Role of Crops and Fruit Trees Diversity in Enhancing Human Nutrition and Health	
27.	Beekeeping as a Fifth and Most Important Input for Overall Sustainable Development of Agriculture	1 9
28.	Marketing and Export of Temperature Fruits	5 4



From the Chairman . . .

I am honoured to be associated with Lt. Amit Singh Memorial Foundation since its inception particularly as the Chairman of Swadesh Prem Jagriti Sangosthi which was Ist organised at Mahamada, Pusa, Samastipur, Bihar, the birth place of Lt. Amit Singh. The first Sangosthi was indeed an eye opener for the village youths as well the farmers. Inspired by the active support and inspirations from various quarters primarily from the youths and the farmers, the 2nd SPJS was organised at Bangalore in collaboration with University of Agricultural Sciences, Bagalkot. Bangalore being the second home of Lt. Amit Singh where he has had most of his education, the Sangosthi was inaugurated by Sri Sri Ravi Shanker Ji. Other significant functions were inaugurated by the Hon'ble Chief Minister and Hon' ble Governor of Karnataka. There itself, it had been decided to host the 3rd is Sangosthi at Dehradoon from where Lt. Amit Singh had past out from Indian Military Academy and joined 1/9 Gorkha Rifles in the year 2000. This is the place where you will be witnessing the talent of the youth competed at the national level competitions. There was an overwhelming response to the talent search competition in horticulture. The Sangosthi also brings all the stalkholders on a single podium to deliberate on the pertinent issues of diverse interest. This year's issue of Conference Horti Business Linking Farmers with Markets is very close to my heart. I have been the Vice Chancellor of Rajendra Agriculture University, Pusa and being an active academician, I very well know how the importance of education in a man's life. There is a famous adage that "If a crop is spoiled, it takes one year to correct it, if a forest is destroyed, it takes five years for it rectification but if education is spoiled it requires generation to be correct".

It is heartening to note that this year the LASMF has instituted award for noted educationist named "Amit Prabudh Manishi". Other awards Amit Krishi Rishi Award, Amit Padam Jagriti Award, Udyan Ratan Award, Lt. Amit Singh Memorial Award for Best Coordinating Centre of AICRP Vegetables, Amit Agrani Award, National Horticulture Talent Search for Horticulture, National Elocution / Essay Competition for School Student and Best All Rounder Awards (for school students) have now being a recurring phenomenon.

Institution of the first Krishi Rishi Award by the Foundation was conferred on Dr. RS Paroda for his outstanding contributions for shaping the agriculture research and education in India. Besides, Dr. Bhawarlal Hiralal Jain, founder Chairman, Jain Irrigation System Ltd, Jalgaon was also conferred on Amit Padma Jagriti Award for leadership in entrepreneurial development.

I take this opportunity to congratulate the recipients of this year's Amit Krishi Rishi Awardee Dr. J.N.L. Srivastava and Amit Padma Jagriti Awardee Padamshri Dr. Manmohan Attavar for their significant contributions. I also congratulate Dr. S.N. Puri for being the first recipient of Amit Prabudh Manishi Award.

The Found also been recognising the contribution of farmers by conferment of Udyan Ratan Award on them. It has created catalysing impact amongst the farming community of the country. The farmers quiz organised by the Foundation provids an opportunity to learn, exchange information and knowledge. The winners are given awards by the Foundation. I wish that more and more should participates in farmers' quiz.



Most of the Executives have consented to participate in the Horti Expo -2011 which will not only provide them opportunity to showcase their strength in tech and inputs. It will be a great opportunity for students, farmers and scientists also. About 100 institutions have already sent their consent to participate in the Horti Expo for showcasing their technologies.

I express my hearty thanks to all the supporters for their effective cooperation. The Foundation is committed for national building to spread patriotism through education, economic upliftment, health and social values amongst the youth in particular and mass in general. I also express special thanks to the ONGC for providing the Conference Hall for successful organisation this mega event. Over and above, I am also grateful to all distinguished dignitaries and delegates for their active and wholehearted support.

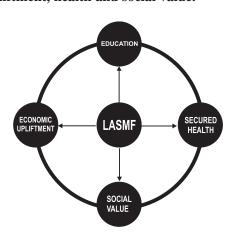
I would like to inform you that the Swadesh Prem Jagriti Sangosthi 2012 will be organised at Bhubaneswar in collaboration with Orissa University of Agriculture & Technology from 28-31May, 2012.

At length, I wish all those who have supported us directly or indirectly a pleasant, healthy and happy future.

About the Foundation

Gallantry Lt. Amit Singh was born at village Mahamada, district Samastipur, Bihar on June 28, 1979. Since his childhood, he displayed a unique nationalistic fervour and invariably talked of serving the Nation. As time went by, he grew up and joined the National Defence Academy in the year 1996. After being commissioned as Lieutenant, he joined 1/9 Gorkha Rifles on 3rd June 2000. Lt Amit Singh, loved by one and all, sacrificed his life for the motherland on 3rd September 2000 in Kupwara district of Jammu & Kashmir fighting against hardcore terrorists. His fight was so vehement that he continued his resistance against the anti-nationals even after being shot several bullets in his body. Lt. Amit Singh, who always valued his commitment to the nation and the society, could be inspirational for umpteen numbers of people in the years to come. His sacrifice reminds us to tell- "when you go home, tell them of us and say for your tomorrow, we gave our today". Recognizing the supreme

Foundation is committed for the development of patriotism through education, economic upliftment, health and social value.



sacrifice of the Lt. Amit Singh, a Foundation in his name was set up in 2001 as Lt. Amit Singh Memorial Foundation, which is headed by Mrs. Bimala Singh, mother of the Martyr. The Foundation is not only devoted to the nation but is also committed to spread patriotism through education, economic upliftment, health and social values amongst the youth in particular and mass in general.

Foundation is committed for the development of patriotism through education, economic upliftment, health and social value.

Activities of the ASM Foundation

Education

National Elocution/ Essay Competition: The ASM Foundation sincerely believes in educating and nurturing young talents who are virtually treasures for the nation's future. Inculcating patriotism among the school children through essay/debate competition to strengthen national security has been the motto of the Foundation. In this regard, an inspirational essay competition on the topic "Duties of Indian Citizen in National Security" was organized for the students (8th – 12th Std) at school, district, state and ultimately at national level.

National Horticulture Talent Search: Horticulture is emerging as one of the best options for addressing the concern of food, nutrition and health care, it is pertinent to search talent in this field. Accordingly, the Foundation has instituted an award for students having best skill in Horticulture.

Amit NibandhPatuta Award: The ASM Foundation carried out various educational and vocational development activities for the benefit



of rural children and distribute Educational kits (books and magazines, pens and pencils, school bags etc.) were distributed to the children to make them excel in their educational field through better academic attainments.

Economic Upliftment

Distribution of Quality Seeds: In course of fulfilling the objective Of the Foundation of the economic upliftment through technology dissemination, seeds of vegetable crops were distributed to the poor farmers from time to time.

National Conference on Horticultural Development: The Conference is one of the major activities of ASM Foundation held at the New Campus of University of Horticultural Sciences, Bangalore.

National Exhibition on Horticulture and Allied Sector: The strength in horticultural technology and inputs were exhibited during the Sangosthi 2009 and 2010 in HORTI EXPO. The exhibition provided an excellent platform for exhibiting the technologies and value-added products for budding entrepreneurs in the field of agriculture/horticulture, different institutes, industries, corporate sectors and farmers.

Securing Health: The Foundation organized health camps comprising of eye camp, naturopathy, acupuncture and wellness camp during Swadesh Prem Jagriti Sangosthi 2009 and 2010.

Social Values: The ASM Foundation is working fearlessly for the development of society having social values and commitment for the preservation of Indian values. Towards this, the Foundation organized Adhyatmic Gosthi to spread the spirituality and harmony among the people. Adhyatmic gosthi was presented by the disciples of His Holiness Sri Sri Ravi Shankar Guruji. Spiritual and communal songs highlighted the event, which brought a sense of unity among different people to work towards fulfilling the duty of the present birth.

Awards Instituted

- 1. Amit Krishi Rishi Award.
- 2. Amit Padam Jagriti Award.
- 3. Amit Prabudh Manishi Award.
- **4.** Udyan Ratan Award.
- 5. Lt. Amit Singh Memorial Award for Best Coordinating Centre of AICRP Vegetables.

- 6. Amit Agrani Award
- 7. National Talent Award in Horticulture.
- 8. Amit NibandhPatuta Award for School Student.
- **9.** Best All Rounder Awards (for school students).



Amit Krishi Rishi award has been instituted to recognise the world leader in the agricultural research and development who has led the national agricultural horizon from the front. These personalities are known for

their image taller than the epoch for taking the frontier of agricultural knowledge and development to a newer height otherwise might not have been attained. Distinctively unique personality from public or government sector recommended by duly constituted search committee is conferred with this highly prestigious award on yearly basis during Swadesh Prem Jagriti Sangosthi.



Amit PadmaJagriti award has been instituted for extra ordinary entrepreneurs. Agricultural development in India has been immeasurably contributed by visionary entrepreneurs in professional manner. Contribution of these

legendary personalities in modernising the fields of poor Indian farmer and improving the livelihood as well as improving the standard of living is in no way less important than government initiatives. Therefore, this award has been instituted to recognise the world class entrepreneurs, devoted for the cause of Indian agricultural and horticulture and who has dared to take high level risk to take the national agricultural to a new firmament. Unparalleled leader entrepreneur of the era who brought technology led prosperity to the nation recommended by duly constituted search committee is conferred with this highly prestigious award on yearly basis during Swadesh Prem Jagriti Sangosthi.

Amit PrabudhManishi award is instituted to recognised exceptional contribution for world leader in the field education particularly of agriculture and horticulture. Places of learning in the field of agriculture form the nucleus or centre

of origin of all recent and advanced development



in this field. This is not only the place where young goons are imparted with basic and advanced knowledge in their specialisation but are trained professionally which further impacts the scenario of national agriculture research and development. These knowledge generating rather worshiping centres have key responsibility to produce highly motivated and energetic human resources to lead the nation's agriculture at internationally competitive environment. Person in command of these centres has stupendous task not only to provide a very positive and motivated environment for healthy development but to train the young growing brains in a disciplined manner. There is imperative need to recognise the contribution of these educational leaders enormously as their donation to the development of society is no manner less than high-level planner or entrepreneur. Therefore, a duly constituted highlevel search committee in national consultation decides on uniquely distinguished educationist for this award.

Udyan Ratan is given after recognizing the contributions of farmers in the development of agriculture/ horticulture, who have hardly been noticed, Lt. Amit Singh Memorial Foundation instituted an annual award "Udyan Ratan" for inspiring the farmers for their innovations, adoption and dissemination of technologies. The award was constituted to recognize their outstanding contributions for exemplary farming, which is an attribute of a farmer in the area of horticulture/agriculture. Selection of farmers for Udyan Ratan from different corners of the country is a Herculean task. Consequently, nominations are sought annually from SAUs, ICAR institutes, departments and from persons of repute.

India has taken big strides witnessing 8 times growth in horticultural production during the last 60 years. Besides, the technologies development by prestigious research institutes of ICAR, farmers too have played key roles in the refinement of technologies. This has lead to the adoption of technologies resulting in the overall manifold growth of horticulture. Irrespective of their contributions, they have been rarely been recognized and appreciated for their extraordinaire work.

The Foundation, in course of its movement, sincerely contemplated on this issue and made efforts to encompass progressive farmers who have deviated from the beaten tract for faster growth of horticulture. In recognition of the contributions

made by illustrious and innovative farmers, the ASM Foundation has instituted the "Udyan Ratan" award which is conferred on the farmers on the occasion of "Swadesh Prem Jagriti Sangoshthi" to provide them their deserved recognition. The award consists of a Plaque of Honour, a Citation and a certificate.

Lt. Amit Singh Memorial Best Cooperating Centre of AICRP award was instituted to create the competitiveness among the centre for All India Coordinated Research Project on vegetables from across the country. Main objective of this award is to improve working at cooperating centres for quality output by motivating scientists with the feeling of involvement and encouragement as well as to increase competitiveness among centres. Annually, this award is being conferred to the best AICRP-VC centres, selected based on the criteria formulated by a committee in consultation with DDG (Hort.), ICAR and Project Coordinator (AICRP-VC) as a Member Secretary of the said committee. Contribution and performance of the centres is mostly judged on successful conduct of the trials, performance, publication, impact of the technology developed, budget utilization, timely submission of AUC etc. The award comprise of plaque of honour and a citation during the annual workshop of AICRP-Vegetable

Innovations have no hierarchical considerations and it may come out from a person of any age and position. In fact, sometimes young brain generate more useful concept to solve the long standing research problems when given the opportunity. To encourage juvenile intelligent brains to develop ground-breaking concept note of practical relevance Amit Agrani Award is given for creative thinking, concept conceiving and presenting to young scientists upto the level of senior scientists and is given to one or two best performing scientist based on their performance in presentation before a panel of judges. The objective of the Amit Agrani Award is to enhance the capability of young scientist in creativity, concept development and communication skill in different Institutes of Horticulture. The award consists of a certificate and a token cash prize of Rs two thousand only.

National Talent Award in Horticulture is for early recognising and tapping the young talent in the field of agriculture/Horticulture and encouraging them to take challenging endeavour in their professional carrier.



Impressions made on young heart and mind last for life and it is very important to inculcate feeling of national integration and security as well as sense of responsibility towards the nation among the growing future generation of our country. **Amit NibandhPatuta Award** for school student has been initiated with these objectives.

This **Best All-rounder Student Award** has been instituted in 2009 for school students who are consistent in their all-round performance to encourage them to develop a habit to excel in any pursuit they undertake. This award was conferred on Miss Kavya Nayar, Kendriya Vidyalaya, Hebbal for achieving excellent marks regularly.





AMERENDRA JI Managing Director, Aurohil Internatinal, Moscow

Lt. Amit Singh Memorial Foundation (LASMF) is in its eleventh year this time, being founded in 2001. This year it will be the third mega event in the valley city of Dehradun also the capital of the newly formed state of Uttrakhand only a year older than the foundation itself!

LASMF is mature now and in true sense keeping Amit's spirit alive. The mission it took to relate the scientific research in the field of agriculture with the farmers is fructifying. In the last two events we have seen that the best minds in the field of agriculture science have come together and have brain stormed on vital national issues and sharing the dais with their farmer friends. Last year in Bangalore Biodiversity was the topic and debate was on the food security of the nation and how to make use of technology to increase the agricultural production of the country. The exhibition on the sidelines showcased both the industry and the research capability of India at large.

This year the event is in Dehradun, which also happens to be a place where Amit completed his

military education and entered professional life as a mature and responsible soldier. I am sure that the event will maintain the same ethos and emerge as a force to reckon with in the field of technology at work on the ground! This year the foundation will take its mission a step forward by bringing the business aspect on the table. It will be interesting to watch the new aspects and ideas in the field of integrating business with technical research and ground realities.

This year I propose to add one more mission, to uplift the forgotten soldiers, those who are still alive but have been forgotten by both the society and the government. Recently I read in one of the regional newspapers about a hapless "Paramvir Chakra" soldier rotting in Jammu. His pension is a slap on our society and government. I believe that he is not alone and LASMF can do a lot to identify these soldiers and monitor how they have been integrated with the society.

I am sure LASMF can help bring the change.....



NEETA SINGH

Trustee, ASM foundation

This is the experience, which makes me to think that:

God does work in very mysterious way,

And he will never be understood!

This is an experience, which I would like to share with you and you decide what was it

It was in last summer on July 10, 2010, I was in Moscow, Bobby my sister, called me and said that she can't trace mummy and papa who had gone to "Amarnath Pilgrim" with them. In fact on their way back from the shrine they were supposed to come by the helicopter, weather was bad and one helicopter had crashed. But there was no news of mummy and papa. I was very worried and was frantically calling on all numbers throughout the day. But by the evening Bobby called and said they had just reached, they had decided not to take the helicopter, but to walk instead!

When I came back from Moscow, mummy narrated the incident to me and I got the Goosebumps! While waiting for the helicopter a man wanted to get on the helicopter forcefully. After the darshan Papa did not want to spoil his

mood and asked Mummy to stay calm and let that man go if he was in such a hurry. They decided to wait for the helicopter to come back and pick them up. But the helicopter was not to come back; they got the message that the helicopter would not return because of bad weather. They were left with no choice but to start walking down. There was no mobile coverage and they could not inform Bobby about their decision.

They started walking and papa's sugar level started falling rapidly. Suddenly a boy appeared, BSF personnel with a black cloth on his forehead and said that he was from the BSF and that he could help. He helped both of them in walking down and also stopped and massaged their feet to release the pain. Mummy asked him from where he was, he said he was from Dwarka, Delhi and had two sisters; he said his name was Amit. Since Amit is a common name, Mummy did not pay much attention. It so happened that neither mummy nor papa could see Amit's face and all of sudden he left, leaving both mummy and papa gasped. Before going Amit touched their feet to take their blessings and both of them felt an inner spark!





नन्द किशोर शर्मा

कावयांजिली कारगिल के योद्धा अमर शहीद ले. अमित सिंह

धन्य – समस्तीपुर की धरती, धन्य – धन्य महामद्दा ग्राम । जनमा जहां देशभक्त एक, 'अमित' दिया था जिसके नाम।

> मात-पिता की आंख का तारा, पढ़-लिखकर जब बड़ा हुआ। देशप्रम के भाव में भरकर, जा सेना में खड़ा हुआ।

अनशासन और कर्मढता से, लेफ्टिनेन्ट का पद पायां। देश की रक्षा करने का फिर, सहसा एक अवसर आया।

> भारत की कारगिल सीमा पर, दुश्मन ने हमला बोला। कूद पड़ा वह वीर युद्ध में, बन करके बम का गोला।

खट्टे किये दंत दुश्मन के, शौर्य पराकम दिखलाया। कितु अंत में लाल देश का, खुदही देश के काम आया।

> अपने मात-पिता का जो, सुत था, वह देश का लाल हुआ जिसकी विमल कीर्ति से जननी, का यूँ उन्नत भाल हुअ।

आज नहीं वह बीच हमारे, लगता लेकिन पास है वो। हर दिल में है बसा हुआ, जैसे कोमल एहसास है वो।

> जिसकी पावन समृतियो से, रोमांचित होता तन-मन। ऐसे वीर सिपाही को सौ बार नमन, सौ बार नमन



अमर शहीद अमित के नाम

अमर शहीद अमित की बलिवेदी पर, पुष्प चढ़ाने आया हूँ। किर्ति करे जग तेरी, मैं शीश झुकानें आया हूँ।

> तेरे शौर्य की गाथाएँ, मेरे रक्त का चंदन । सुरभित किया है जग में, माँ पर तेरा अर्पण ।

किं तपस्या त्याग तुम्हारा, मैं तो पाने आया हूँ। तेरे जैसा बनूँ मैं भी, मैं शीश झुकाने आया हूँ।

> हे भारत के अमर शहीद अमित, तेरे पदचिन्हों पर चलने आया हूँ। देशहित में समर्पण हेतु, मैं संकल्प लेने आया हूँ।

> > शिव सिंह कृषि विहार



भारत माँ के बेटे के गीत

भारत माँ के दुलारे वतन के प्यारे । टूक-टूक करके कलेजे, कहाँ चलारे ।।

> ममतामिय माँ की ममत्व, मर्माहत करके । अपना जीवन ज्योति, धरा को समर्पित करके ।।

उगते सूरज की दिप्ति, हो अस्त चलारे । टूक-टूक करके कलेजे कहाँ चलारे ।।

> जीते तो सबलोग यहाँ पर कैसा जीना । परम सुखद पावन जीवन का अमृत पीना ।।

जगत जननि, धरनि का प्रिय अरमान चलारे । टूक-टूक करके कलेजे कहाँ चलारे ।।

> अमर शहीदों के मेले में, एक वीर मिला । भारत के इस बगिया में, एक फूल खिला ।।

तू हँसता चला वतन को रूला चलारे । टूक-टूक करके कलेजे कहाँ चलारे ।।

> धन्य है तेरे लाल जिसे पा धन्य हुई तूँ। हे जननि जनने वालि, मूर्धन्य हुई तूँ।।

अमर अमित अधरों का मुस्कान चलारे । टूक-टूक करके कलेजे कहाँ चलारे ।।

> सत्यनारायन मिश्र पुनास, समस्तीपुर, बिहार



Duties of Indian Citizens In National Security

AKSHAY BADOLA

Standard XI, Campus School, Pantnagar

"We have no eternal allies and have no perpetual enemies. Our interests are eternal and perpetual and those interests it is our duty to follow. "Henry John Temple.

The modern concept of "national security" as a philosophy of maintaining a stable nation state can be traced to the "Peace of Westphalia" National security is best described as the capacity to control those domestic and foreign conditions that the citizens believe are necessary to enjoy their own self determination or autonomy, prosperity and well being. It's the ability to preserve the nation's physical integrity and territory; to maintain its economic relations with the rest of the world on reasonable terms and to preserve its morals, ethics, culture and governance. Initially focusing on military might it now encompasses a broad range of facets.

Indian national security has become hostage to a large number of threats. Democracy and more than 8% economic growth rate would be of no avail if India as a nation itself withers away. Indian is not only being frayed at its border by insurgencies, but its very writ in the heartland is becoming increasingly questionable. India faces not only external threats like hostile nation states, proxy wars, international terrorism etc but also internal threats like corruption. Maoists, religious extremists, poverty, moral bankruptcy etc. Thus it is high time for Indian Citizens to take up the mantle of national security in their own hands. Every citizens be it a student, teacher, soldier, govt, official, politician or businessman must at least do proper justice to their job for the greater good of nation.

Indiat has been subjected to external aggression in the last 63 years because it exhibited

the propensity to be pacifist or overtly defensive in nature. It shied away from the use of power despite its size and resources. The resultant effect was that all Indian adversaries perceived India as a "soft state" incapable of strong military responses even when its national security interests were trampled upon both externally and internally. India after 63 years of being a "soft state" needs to get into resurgent mode befitting her size and resources. The time has come to not only buildup her power attributes but also to learn and have the will to use power.

Having a powerful army is a pre requisite for National security. It not only deters hostile nations from aggression but also help in fighting terrorism. Thus citizens must encourage their children to take up a career is armed forces. They should cooperate with the families of army Personnels and should also help is formulating a "strategic doctrine" which should define is unambiguous terms the "red lines" whose crossing or attempts to breech will not be tolerated. The citizens should press for modernization and more autonomy for the army.

In a democracy the citizens are the ultimate source of political power. They have to realize the power of their vote and elect their representative consciously so that political leadership of very high order and caliber, capable of leading India, and using diplomacy along with marshalling India's economic power to protect its national interests at the international level is installed. The citizens must also check the functioning of govt, by using various means like RTI. Citizens must see that security issues are not politicized. A Kandhar like case must not be repeated.

All progress made till now will be useless if it can't reach the bottom of the economic pyramid.



If the economic gap between the rich and poor goes on increasing at the current rate, then the day is not far away when a Libya and Egypt like situation would be a reality in India. This would be a grave threat to India's national security. To avert this threat we have root out its main cause, corruption.

Corruption is like a parasite which on one hand eats on its host and at the same time weakens it. In India's case the host is our national security itself. We the citizens of India, sadly, ourselves have created it and we alone can kill it. The least we can do is to support people like Anna Hazare and Baba Ramdev who are waging a war against corruption and Black Money. We must not indulge in corruption nor allow others to fall for it. Every citizen must pledge to fight against corruption. 90% of India's problem including illiteracy, inflation, and economic disparity will vanish if the parasite of corruption which encompasses everything from bribery to hoarding is killed. Making India corruption free is one of the most important duties of citizens. The citizens must make themselves morally righteous.

Citizens are the eyes and ears of the nation and they have to faithfully discharge the duty of these two organs. Every wrongdoing must get reported. The citizens must ask for a swift and accountable bureaucracy.

A large number of separatist forces are trying to tear apart India into small pieces. They are resorting to cheap tricks like instigating people in the name of caste, creed, race, religion etc. The duty of citizens at this point of time is to straightaway neglect these appeals and thwart the plans of separatists. They should prove to these separatists and their masters that India was, India is and will always be land of "Unity in diversity".

Today, India stands at cross roads. One way leads to the darkness of corruption, terrorism, poverty and ultimately to the fall of India but the other way leads to the divine light of knowledge, development, equality and ultimately securing National security in all terms. Now the power lies in the hands of citizens to steer the nation in the right direction. Those who doubt the fact that citizens are the harbingers of change should pay heed to what In a democracy the citizens are the ultimate source of political power. They have to realize the power of their vote and elect their representative consciously so that political leadership of very high order and caliber, capable of leading India, and using diplomacy along with marshalling India's economic power to protect its

national interests at the international level is installed. The citizens must also check the functioning of govt, by using various means like RTI. Citizens must see that security issues are not politicized. A Kandhar like case must not be repeated.

All progress made till now will be useless if it can't reach the bottom of the economic pyramid. If the economic gap between the rich and poor goes on increasing at the current rate, then the day is not far away when a Libya and Egypt like situation would be a reality in India. This would be a grave threat to India's national security. To avert this threat we have root out its main cause, corruption.

Corruption is like a parasite which on one hand eats on its host and at the same time weakens it. In India's case the host is our national security itself. We the citizens of India, sadly, ourselves have created it and we alone can kill it. The least we can do is to support people like Anna Hazare and Baba Ramdev who are waging a war against corruption and Black Money. We must not indulge in corruption nor allow others to fall for it. Every citizen must pledge to fight against corruption. 90% of India's problem including illiteracy, inflation, and economic disparity will vanish if the parasite of corruption which encompasses everything from bribery to hoarding is killed. Making India corruption free is one of the most important duties of citizens. The citizens must make themselves morally righteous.

Citizens are the eyes and ears of the nation and they have to faithfully discharge the duty of these two organs. Every wrongdoing must get reported. The citizens must ask for a swift and accountable bureaucracy.

A large number of separatist forces are trying to tear apart India into small pieces. They are resorting to cheap tricks like instigating people in the name of caste, creed, race, religion etc. The duty of citizens at this point of time is to straightaway neglect these appeals and thwart the plans of separatists. They should prove to these separatists and their masters that India was, India is and will always be land of "Unity in diversity".

Today, India stands at cross roads. One way leads to the darkness of corruption, terrorism, poverty and ultimately to the fall of India but the other way leads to the divine light of knowledge, development, equality and ultimately securing National security in all terms. Now the power lies in the hands of citizens to steer the nation in the



right direction. Those who doubt the fact that citizens are the harbingers of change should pay heed to what

Margaret Mead said "Never doubt that a small group of thoughtful committed citizens can change the nation. Indeed, it is the only thing 'hat eve has'.

If this essay could ignite a strategic mindset in all Indians and make them conscious of matters connected with Indian national security the end aim would be achieved.

Summary

"History speaks of a few, for a few who dares to create history"-Anonymous.

We, citizens are fortunate enough to be born at a golden time like this where we can create a place for ourselves in history by being thoughtful and committed to the goal of protecting India's national security and taking India forward.

The whole aim of national security is to maintain a stable nation providing equal opportunities and freedom from any fear to its citizens. India's national security is threatened by both internal and external factors.

Indias adversaries including hostile nations

and terror groups perceive India as a "soft state" incapable of defending its security. It is the duty of citizens to change this notion. We all have to aggressively support our army and give it more autonomy. Cooperation with army and formulating a "strategic doctrine" is our duty.

One major duty of citizens is to use their power of vote and elect a government that can protect our national security interests and also check its functioning. Internal threats to national security including illiteracy, economic disparity and inflation can be suppressed if their root cause, Corruption is ended. We all have to pledge and fight against corruption.

Another Duty of citizens is to silent those separatists who try to split India by showing them why India is called the land of "Unity in Diversity".

At this crucial juncture of time, It's the duty of citizens to lead India towards achieving national security. Ending with an ancient Vedic prayer -

"May our world be beautiful;

Our actions dutiful;

Our nature merciful;

And our nation bountiful".



Role of Indian Citizen in National Security

SHIKHA KUMARI

XII-B, City Montessori School, Aliganj, Lucknow

"India" when this beautiful five letter word is spoken in our mind are automatically filled with pacifying thoughts, and one starts imagining about beautiful mansions and monuments like Taj Mahal and Golden Temple. But with course of time, our India has changed drastically. It's real truthness is extremely bitter and it can't be sugar coated. Well....coming back to original track, our dear "Hindustan" ranks third in un-cleanliness first in corruption and second in AIDS.

Though I may have appeared very rude and unpatriotic but this is the real face of India. In today's scenario, it requires good intelligent citizen who have ample of time for their country. India needs mentally alert and able young men and women. It is the duty of every citizen to acquire as much knowledge as they can during their student life and work for their motherland selflessly.

"My country! In thy day of glory past, A beauteous halo circled round they brwo, And worshipped as a deity thou wast"

- Herbert Lous Vivian Dereozio.

A nation does live by its big factories, dams or buildings. It can live only by the character of its people. During three hundred years of foreign rule, our moral character was shaken. If we want to achieve national security then very first step would be taken at school level. Students must learn from the very beginning the lesson of self-help, self-reliance and self-sacrifice. These are the essentials of character which they must acquire. They should learn to co-operate each other in their class-rooms. Such fearless, patriotic and virtuous children can only grow up into bold leaders like Bhagat Singh, Jhansi ki Rani, Tatya Tope, Mahatma Gandhi etc. Such daring and courageous children will protect

our country in time of needs. My thought clearly explains "Child is the father of man".

Today, communalism threats to break the country into pieces. Religion is being used to secure votes. This must not be done. Sorry to say but such fires are sparked by political leaders. Violence leads to terrorism. In order to avoid such situation, we should live in peace and harmony must choose a correct leader through our "votes" who could lead us in times of need.

Our country requires engineers and scientists. It is the duty of each Indian citizens to develop new concepts and technology help our country to develop new missiles and atom bomb which would help our nation in times of emergency. I know people talking about "Disarmament" but still we should develop few of them. A good citizen must inform his country about any illegal action going inside or outside his society or dwelling place. Must for sure inform municipal party co-operation about garbage, mosquitoes or any such diseases which is spreading rapidly.

Every patch of Indian society has become corrupt. If you go into its deeper meaning. From where has this corruption started? Have you ever thought? It has started from us and now has taken the form of an incurable disease. We can find corruption everywhere in courts, offices, temples, schools, it has grabbed everyone under its claws. If we the citizen of India who give 'bribes' so that our works are done easily but latter, don't know why repent and complain for the same.

"Corruption free government is not a necessary condition for rapid economic development. If the corporate and institutions work and uncertainly is checked, progress is possible"

S. Swaminathan



Corruption can hinder our economic growth and ultimately results in making India "developing" not "developed" nation. So being good citizen, we have to stop corruption at social level.

India posses 2.4 per cent of the total land area of the world but it has to support about 16 per cent of the total world population. With fast expanding population, education acquires a vastly different role. Leaders have talked about the perils of population explosion. But there has never been any real effort at changing the nature of education in India to cope with the threatening danger that we are swimming in. The decennial increase in population from 1991-2001 is 18.1 crores, equivalent to total population of Canada, France and Germany. We can't afford such increase in population. Many of us would be regarding our Government responsible for it. But, it is totally fake and false to think any such absurd thing. It is we the people of India who can control the population of our country by limiting the size of our family. Population and national security are inter-related. Population means less of jobs, less of jobs means poverty, poverty means economic crisis which is really a threat to the national security.

Besides this, an Indian citizen can help in national security by controlling population which is the greatest devil of our country, society and whole universe. It has resulted into global warming. In a nutshell, the global warming has become a grave threat to the ecological balance of the earth. The civilization is moving slowly towards a

doomsday. All the nations, particularly the most industrialize, developed countries have to be active to take immediate action on the matter. Now, the very first thought which must have risen in many of our mind - "How can we help?" or Why should we help?". If you too think the same they always remember when any national crises or insecurity will fall upon India, then will effect all of us. Plight can never distinguish between rich, poor, leaders and common men. You can control the population by using lead free petrols, be afforestation, preventing deforesting, using paper instead of plastic and many such small things. Pollutions may result into distress disease and cause national insecurity. So being good citizen of India, we should take little efforts from our side everyday to reduce population.

At last I would like to conclude by saying that we are common people, we can't take funs and stand near our border in the name of national security. We can't kill, abash or shot for the sake of national security. These little things contributed by each and of us can help to make out India nationally secure. I know that such negotiations and teachings appear attractive and sweet only decorative piece of books, but I totally leave this decision on to you by saying, "Our body is built so strong by our country food. We breathe that air which is produced by our trees and our motherland never charges us for that so can't we contribute little for her security?".



Role of Indian Citzen in National Security/ITY

APARAJITA SINGH

XII A, KV Aliganj, Lucknow

Api swarniyamlanka nameh rochte laksman Janani janmbhumishcha, swargadapi gariyase Ram say- "O Laksham though Lanka is made of gold, it does not attract me To me my motherland is like heaven"

This shloka rings like wind chimes in the monsoon breeze.

Their purity is diffused like dew drops. Lord Ram himself accepted that his country was not unblemished but it was his and he strived to make it better. Our country is no golden paradise as portrayed by many renowned poets and philosophers. But it is ours. And we have rights as well as responsibilities over it.

Drugs, man portable arms, terrorists, fake currency are able to pass through. 7 tons of high explosives could be landed on Maharashtra in one instance. Our air space too was violated with impunity when arms were dropped at Purila.

This country has contributed the term politician-bureaucracy-organized crime nexus to political lexicon. Politicio-bureaucratic corruption is rampant in the country because of the role played by money and muscle power in elections. Corruption at higher levels cannot be tackeled when there is corruption at higher levels. A widely corrupt society cannot provide good and efficient governance. A corrupt and misgoverned polity is highly vulnerable from the point of view of national security. It is like a body effected by AIDS. The immunity against infections stop and the body is susceptible to various kinds of diseases.

Foreign agencies can make use of organized crime like narcotic barons, money launderers and smugglers to infiltrate arms and terrorists. Some years ago Pakistan press published an interview with one of their drug barons, HajI Iqbal Beg, who boasted that he sent the drugs across to his friends in India who shipped them to America and Europe. A CIA report gave details of the activities of Pakistani drug barons.they did not evoke much response in this country.

But while the structures do have a chance to get reformed and updated, the problem of attitudinal change towards national security is beyond the scope of ministers.

The tragedy is that without the nature of the problem being diagnosed only the symptoms are being treated. That is to be welcomed but that will not produce the permanent cure.

The current threat to India requires engagement of the public as the necessary eye and ears of the nation's homeland security structures. However, to be effective public must be equipped with the knowledge of where and why specific activities may be a threat to national security. What is being done to protect these targets and what they can do to help.

Instead of "fueling the fear" that is giving an already troubled nation new reasons to duct tape themselves inside their homes. We should make a joint effort with the help of the government to educate the general public on what each of us can do to eradicate the vulnerabilities we share as a nation. Previous examples of nations who have endured long terror campaigns(including Israel, Spain, and UK) demonstrate that a well-informed public is a vital part of taking a nation through any kind of terror attack or catastrophic event.

National security can be promoted if there is no discrimination to the point of causing heart burn and frustration and all get equal opportunities.



Indeed it is ironic that while the Islamic extremist movement is driven largely by social network connection, the same patterns of interaction have eroded our civilization. This is unfortunate given that social network have been shown to be important for providing assistance and information relevant to managing traumatic stressincluding stress associated with attacks like we endured on 26/11. Volunteering to support local emergency problems, disaster relief and community safety can help build social network that strengthen public resilience.

An ideal example was set by the USA after the 9/11.

Citizen Corps was created to help citizens actively participate in keeping America safe. Two of it's programs- The Neighborhood Watch program and the Volunteer In the Police Service (VIPS)-offered Americans many ways to be involved.

You can make a difference in many ways.

- Talk to your neighborhood about crime in the area and possible challenges.
- Contact your local police or sheriff's department to discuss local crime. Invite a crime preventive officer to attend your meeting.

Slowly you will start to notice the benefits of these little activities.

- Crime is reduced and fear of crime lessens within a community.
- Local residents feel less helpless and more in control.
- Activities such as sprucing up public places and removing trash generate pride and a sense of involvement among community residents...
- Bonds are formed between law enforcement agencies and members of the community that benefit everyone.

But when crime drops or a neighborhood problem is alleviated your activities may lose momentum. Keep your program vital by extending it's scope beyond the basic scope of home security.

 Have the localites brainstorm ways to improve the community's quality life.
 Sponsor community clean ups, collect

- clothes and toys for the homeless and the needy.
- Keep in touch with the members by planning social events before and after a meeting
- Provide public recognition of localites' achievements through awards and newsletters.

May God bless the moments when these pearls escaped the lips of George William Curtis,

"A man's country is not a certain area of land, mountains, rivers and woods but it is a principle and patriotism is loyalty to that principle"

So,

ASK not what the country can do for you, but ask what you can do for the country.

Summary

The idea of writing this essay is to bring together the thoughts of many people who are interested in ameliorating India and making India a safer placer to live. I am of the opinion that more than pointing fingers at politicians and administrators, time has come for introspection into the role that we as citizens play in bringing change around us.

The essence of this piece of writing may give food for thought to your mind to ponder over the following questions

- How can everyday citizens contribute to homeland security?
- Does the average Indian know enough about security threats and their responsibilities to make informed decisions about the potential contributors of homeland security?
- What should/ can persons/ families do in terms of vigilance, preparation and response?

While national security is of prime importance for the well being of each nation, it cannot be left to only the security agencies to guard such a vast geographical landscape. As a matter of fact it is the concern of each citizen of the country to contribute in this direction in whatever way they can.

With this motive I present my thoughts on how we can salvage the security in this country.