



SPORTS AUTHORITY OF INDIA

70th MEETING
OF THE
FINANCE COMMITTEE

***SUPPLEMENTARY
AGENDA***

Date: May 20, 2015 (Wednesday)

Time: 3.30 p.m.

Venue: Conference Room, 1st Floor, NDTL Building
Adjacent SAI Head Office, Lodi Road,
New Delhi- 110 003

70th Meeting of Finance Committee of SAI

INDEX

Item No.	Particulars	Page No.
1	Proposal to upgrade the existing Sports Science and Sports Medicine Centres in the country under Sports Authority of India.	1-8
2	Renovation/up-gradation of existing infrastructure and new project to be undertaken at Special Area Games (SAG) Centre, Kokrajhar(Assam)	9-13

Agenda Item No. 1

Proposal to upgrade the existing Sports Science and Sports Medicine Centres in the country under Sports Authority of India.

At present, there is lack of systematic approach to provide scientific back-up to Indian sportspersons, especially at time when **they are selected and groomed for excellence**. At base level, the coaches and sportspersons require to be educated regarding scientific benefits for achieving higher standards of sports performance.

In this regard, Faculty of Sports Sciences at SAI NSNIS, Patiala, was established in 1983 with an objective to impart teaching to the students of various educational programmes conducted by NIS. Subsequently, the scientific testing on national players was planned and carried out. A need was also felt to build sports science centres in other regions of SAI in line with the NIS, Patiala and accordingly, sports science centres at Southern Centre, Bangalore and Eastern Centre, Kolkata were established. A Human Performance Lab (HPL) was also set up at Delhi in 1987.

There may be many reasons for slow development of sports science like budget constraints, acute staff shortages, lack of attention to faculty development, lack of up-gradation of equipment, etc, but these weaknesses have to be urgently tackled to raise the levels of sports achievements to higher levels of excellence through means and modes of scientific endeavors.

- SAI has three academic centres where national camps are also held. These are at Patiala, Bangalore and Kolkata. Delhi also needs a full-fledged sports science centre as national camps are held here and National Sports Academies are functional here (Category A)
- SAI has regional centres which require sports science set up for national camps and SAI hostels. These are at Bhopal, Gandhinagar, Sonapat, Imphal, Thiruvananthapuram, Guwahati and Lucknow (Category B)
- SAI has 80 STC and SAG centres (Category C)

There is an urgent need to upgrade scientific set up at all centres of SAI so as to bring India at par with other developed countries and to build ourselves as a sporting nation and a force to be reckoned with.

For this, we have to keep on improving ourselves in terms of manpower and make them more skillful and at par with their international counterparts. We need to equip our laboratories, with the latest equipments. At the same time, the scientists have to be trained further either by training them abroad or bring the resource scientist from abroad to India.

In order to achieve above, following needs to be decided on priority:

1. To increase the staff strength in Sports Science and Sports Medicine in SAI Centres:

Present Staff Strength (in position)	=	35
No. of Vacant Post	=	19
Total Sanctioned Posts	=	54

2. There is an additional requirement of staff for SAI centres of category 'A', 'B' and 'C' on the basis of

- i) Functioning & work load of the centre
- ii) Usage of the available equipment
- iii) Number and duration of the national coaching camp

Following requirement of staff has been worked out:

Sr. No.	Requirement of Staff	Centres
1	Category 'A' = 23 x4 = 92	Four Centres
2	Category 'B' = 8x6 = 48	Six Centres

Bifurcation along with justification is as follows:

For Category 'A':

Sr. No.	Designation	Required No.	Remarks/Justification
1	SSO	04	One SSO / SO in each department
2	SO	04	
3	JSO	08	-do-
4	SSA	03	Only in Bio-mechanics, Physiology, Psychology and GTMT.
5	JSA	04	-do-
	Total in each centre of category 'A'	23	

For Category 'B':

Sr. No.	Designation	Required No.	Remarks
1	SSO	Nil	Not at initial stages
2	SO	Nil	Not at initial stages
3	JSO	04	In four departments i.e. Exercise Physiology, Sports Psychology, Bio-mechanics and Training Methods. Exercise Physiologist will also look after the requirement of Bio-chemistry, Anthropometry and Nutrition departments. SSO / SO from Category 'A' centres will visit these centres.
4	JSA	04	-do-
	Total for centres under Category 'B'	8	

Total additional sports science staff required 140-54 (existing) = 86

Financial Implication:

Expenditure would be first booked under Capital account later on as recurring account as worked out follows:

Staff	Number	Total	Financial Implication (in Rs. per annum)
SSO	13	13	63192x12 =9857952
SO	8	8	60762x12 = 5833152
JSO	16	16	57866x12 = 11110272
SSA	12	12	36213x12 = 5214672
JSA	37	37	21144 x 12 = 9387936
Total	86	86	4,14,03,984

Total = Rs. 415 lakhs (Approx.)

3. Procurement of Sports Science Equipment

It is essential to procure modern sports science equipment if we want to produce sports champions. It will also help in conducting high quality research in the field of sports sciences and sports medicine. Not only equipments will help in performance enhancement research but also teaching to promote sports excellence. Sports Medicine equipment will help in prevention, treatment and rehabilitation of sports injuries.

Status of Procurement of Sports Science Equipment for Category 'A' (HPL-Delhi, Patiala and Bangalore)

S.No.	Subject	Estimated Value (Rs. in lakhs)	Status
1	Sports Science & Sports Medicine Equipment for Sports Medicine Centres at JNS (Delhi)	95 58	Three supply orders valued at Rs. 66 lakhs placed on three firms. Supplies are being received; some of the equipments are being installed at JNS. The supply & installation of other equipments as per supply order likely to be completed by July 2015. Balance items including fresh demand required at JNS, Delhi is being processed for sanction of funds through Finance Division.
2	Sports Science Equipment for NSNIS, Patiala	152	Technical bids opened on 10.04.2015. Techno Commercial Bid Evaluation Committee meeting held on 12.05.2015. Case under process.
3	Sports Science Equipment for Bangalore	85	Technical bids due for opening on 21.05.2015
4	Sports Science Equipment for Kolkata	105	Procurement process yet to be initiated
Total		495	

Amount required for purchase of scientific equipment for all centres of Category 'A' - Phase II

(Rs. in lakhs)

Department	Patiala	Bangalore	Kolkata	New Delhi	Total
Anthropometry	50	50	Nil	25	125
Physiology	200	200	Nil	100	500
GTMT	60	60	60	25	205
Biomechanics	Nil	Nil	70	50	120
Total	310	310	130	200	950

Total: Rs. 950 lakhs

Amount required to procure Sports Science Equipments for all Centres of Category 'B'

(Rs. in lakhs)

Department	Bhopal	Lucknow	Guwahati	Sonepat	Trivan- drum	Imphal	Total
Anthropometry	5.60	5.60	5.60	5.60	5.60	5.60	33.60
Biochemistry	3.81	3.81	3.81	3.81	3.81	3.81	22.86
Physiology	12.95	12.95	12.95	12.95	12.95	12.95	77.70
Biomechanics	56.00	56.00	56.00	56.00	56.00	56.00	336.00
Training Method	11.34	11.34	11.33	11.33	11.33	11.33	68.00
Psychology	27.00	27.00	27.00	27.00	27.00	27.00	162.00
Nutrition	0.30	0.30	0.30	0.30	0.30	0.30	1.80
Total	117.00	117.00	116.99	116.99	116.99	116.99	701.96

Total: Rs. 701.96 lakhs say Rs. 702.00 lakhs

Department-wise list of Sports Science Equipment required for all STC/SAG Centres of Category ‘C’

Name of the Department	List of Equipment	Approx. Cost (Rs. in lakhs)
Sports Anthropometry	1. Anthropometric Survey Set	1.00
Sports Physiology	1. Lactate Scout 2. Hand Grip Dynamometer 3. Spirometer (NA) 4. Heart Rate Monitor	2.50
Sports Psychology	1. Theoretic Apperception Test (TAT) 2. Children Apperception Test (CAT) 3. Rorschach Test 4. NEO – Personality Inventory (NEO-PI) 5. Luria – Nebraska Neuropsychological BatterY (LNNB) 6. Luria – Nebraska Neuropsychological Batter Toe Children (LNNB-C)	4.00
Training Methods	1. Stop Watch 2. Sport Testor 3. Measuring Tape 4. Grip Dynamometer 5. Back Dynamometer 6. Medicine Balls (1kg, 2kg, 3kg & 4kg) 7. Cones 8. FBR Box 9. SVJ/SBJ Mats	2.00
Sports Biochemistry	1. Hemoglobin Test Meter 2. Glucometer	1.00
	For 1 STC/SAG Centre	10.50

Therefore, for 80 STC/SAG Centres: 80 x 10.50 = Rs.840.00 lakhs

4. Procurement of Portable Sports Science Equipments required for testing on STC and SAG children

Unless and until young scientists of Sports Science Centres of Categories ‘A’ and ‘B’ do not visit STC and SAG centres, biannually, to conduct scientific tests and to provide baseline scientific assistance, significant improvement in performance cannot be brought in. In this regard, it is essential to procure portable sports science equipment for testing on STC and SAG children. Following is list of such equipments required for each sports science centre of category ‘A’ and ‘B’ to do the needful.

List of Portable Sports Science equipment- required for testing on STC, SAG, COE children /or on field SAI NS NIS Patiala, NSSC Bangalore, EC Kolkata

Department	List of the equipment	Cost (Rs. in lakhs)
Sports Anthropometry	1. Anthropometric Rod 2. Portable weighing Machine 3. Skinfold Caliper 4. Bone/ Vernier Caliper 5. Measuring Tape Sliding & Spreading Caliper	2.00
Sports Physiology	1. Lactate scout 2. Hand grip Dynamometer 3. Back strength Dynamometer (NA) 4. Spirometer (NA) 5. Heart rate monitor 6. Gas-Analyzer 7. Pedometer (NA) 8. Digital Sphygmomanometer (NA) 9. Humidity sensor (NA) 10. Ambient temperature measuring device (NA) * NA= Not available in the department	8.00
Sports Psychology	1. Theoretic Apperception test (TAT) 2. Children Apperception test (CAT) 3. Rorschach test 4. NEO- Personality inventory (NEO-PI) 5. Luria- Nebraska Neuropsychological battery (LNNB) 6. Luria- Nebraska Neuropsychological Battery toe children (LNNB-C)	5.00
Training Methods	1. Stop watch 2. Sport testor 3. Measuring Tape 4. Grip Dynamometer 5. Back Dynamometer 6. Medicine Balls (1 kg, 2 kg, 3kg & 4 kg) 7. Cones 8. FBR Box 9. SVJ/SBJ mats	2.00
Sports Biochemistry	1. Hemoglobin test meter 2. Glucometer	1.00
	Total	18.00

Therefore, total expenditure for 4 and 6 centres of categories 'A' & 'B': 10x 18=180 lakhs

Two sets of sports science equipments for mobile sports science van= Rs. 18 x 2 = 36 lakhs

Therefore, total expenditure = 180 lakhs + 36 lakhs = 216 lakhs

5. Mobile Sports Science Unit

These portable equipment (1 set each) would also be placed in the MOBILE SPORTS SCIENCE UNITS of SAI and scientists available at the venue may visit STC or SAG centres to do the required testing. Each mobile van would cost Rs. 30 lakhs. Hence, Rs.70 lakhs will be required for two vans.

Total = Rs. 70 lakhs

6. Need to install Hypoxic Chambers at SAI NSNIS, Patiala and Southern Centre, Bangalore

Training in the Hypoxic chamber is good for increasing aerobic as well as aerobic performance because it increases 'red blood cell count'. Further, Hypoxic training allows the benefits of both, training high and living low. Hypoxic training can help in marked relaxation and might improve the quality of sleep. The resting heart rate will go down typically -5-10 beats per minute. It provides the same benefits as that of High Altitude training. SAI is spending a lot on training athletes in Ooty, Munnar and other places. If Hypoxic Chambers are installed this cost could be reduced as most of the major National Coaching camps are in Patiala or Bangalore. Cost of one Hypoxic Chamber would be Rs.200 lakhs. Hence, Rs. 400 lakhs will be required for the Hypoxic Chamber.

Total = Rs. 400 lakhs

7. Requirement of Medical Staff for Support to National Campers

Keeping in view the upcoming Olympics 2016, it has planned to provide OPD service on Sunday also as well as to increase OPD hours on other days from 8:00 am to 8:00 pm. Moreover, adequate paramedical staff is required for emergency services/on call services. Currently only the doctors are attending the emergencies due to insufficient paramedics.

To provide proper medical support as described above, the following staff is required at least in addition to the current strength in each Sports Medicine Centre of Category 'A'.

S. No	Particulars	No. of Requirement	Amt. Per month (in Rs.)	Amount Per Annum (in Rs.)
1.	Doctor	8	37866	55,55,136
2.	Physiotherapist	8	36213	3,47,6448
3.	Masseuse	4	21144	1014972
4.	Masseur	4	21144	1014972
5.	Staff Nurse	8	21144	20298824
6.	Pharmacist	8	21144	20298824
7.	Lab. Technician	4	21144	1014972
8.	Radiographer			1014972
			Total	16136268

Total = Rs. 162 lakhs (approx.)

One-time Expenditure

Sr. No.	Particulars	Amount(Rs. in lakhs)
1	Requirement for category 'A' Centres Phase-I Phase-II	495.00 950.00
2	Requirement for category 'B' Centres	702.00
3-	Requirement for category 'C' Centres	840.00
4-	Portable equipment	216.00
5.	Mobile Van	70.00
6.	Hypoxic Chamber	400.00
Total		3673.00

Recurring Expenditure

Sr. No.	Particulars	Amount(Rs. in lakhs)
1	Salary of Sport Science Staff per annum	415.00
2	Salary of Medical Staff per annum	162.00
Total		577.00

Concurrence of Finance Committee is solicited for the above proposal.

Agenda Item No. 2

Renovation/up-gradation of existing infrastructure and new project to be undertaken at Special Area Games (SAG) Centre, Kokrajhar(Assam)

Background

The SAG Centre, Kokrajhar which was established in 26th Oct, 2006 and it is doing exceptionally well in terms of producing outstanding sportspersons. Already about 68 sportspersons have represented the country and also won 14 Gold, 8 Silver and 9 Bronze medals in different level of international events, since inception. Up gradation of the infrastructures and other facilities will definitely encouraged the trainees/ sportsperson and produce better result in the various national & international level competitions.

The following facilities were created by Bodoland Territorial Council Government (BTC) and handed over to SAI for the greater interest of promotion/ development of sports in the region. After taking over the Complex of SAI, SAG Centre, Kokrajhar along with facilities/ infrastructures listed below, SAI has never spent any amount either for maintenance, repair or renovation of the sports infrastructures and other facilities of the centre required from time to time although Finance Committee of SAI has approved in principle.

a) Office Accommodation	<u>Nos.</u>
1. 100 Bedded Hostel (Boys)	: 01
2. 50 Bedded Hostel (Girls)	: 01
3. Office Room	: 02
4. Dining Hall	: 01 quarter
5. Recreation Hall	: 01
6. Store Room	: 02
7. Medical / Observation Rooms	: 02
8. Class Room for theory classes	: 01
9. Library	: 01
10. Fitness	: 01
11. Conference Hall	: 01
12. VIP Lounge	: 01
13. Media Centre	: 01
14. Officers Accommodation	: 01 quarter
15. Accommodation for Coaches	: 05 quarters
16. Accommodation of Staff	: 03 quarters
17. Grade IV Staff Quarter	: 06 quarters
b) Playing fields	
1. Football Ground	: 01
2. 400 Mt. Athletic Track (Murrum)	: 01
3. Grand Stand	: 01
4. Multi Purpose Indoor Hall (Boxing, Karate, Kabaddi, Judo, Wushu)	: 01

Presently the following disciplines are adopted and running very successfully under SAG Centre, Kokrajhar:

1. Archery
2. Athletics
3. Boxing
4. Football
5. Judo
6. Kabaddi
7. Karate
8. Taekwondo &
9. Wushu

Hockey was one of the approved disciplines at the time of starting the SAG Centre. Administrative approval of the 52nd Finance Committee dated 14.12.2007 and the Governing Body of SAI meeting dated 11.01.2008 was conveyed vide letter No. 16(1)/Infra/SAI/08-09/275 dated 01.05.2008 for providing Synthetic Hockey Surface and Athletic Track for SAG Kokrajhar. The Preliminary estimate of the work amounting Rs.17, 76, 54, 000/- has been submitted by CPWD, Guwahati along-with history sheet of the estimate which is being submitted to Director (Infra) for approval, but due to funds constraints, both the Synthetic Hockey Surface and Athletics Track were subsequently withdrawn. **However, in order to upgrade the existing facilities of the SAG Kokrajhar the following works are required to be undertaken in phase-wise manner along-with creation of new infrastructure which is very much essential in view of the performance of the Centre. These estimates have been prepared by Assam Housing Board, a Govt. of Assam PSU.**

The tentative cost of the repair and renovation of existing infrastructure and new proposals are as under:

Sl. No	Name of work	Amount
	REPAIR, RENOVATION AND UPGRADATION	
1.	Estimate cost of the renovation of Grand Stadium	Rs. 2, 22,31,762.00
2	Estimate cost of the renovation of indoor stadium	Rs. 3, 34,76,737.00
3	Estimate cost of the renovation of Girls Hostel	Rs. 70,40,902.00
4	Estimate cost of the renovation of Boys Hostel	Rs. 74,04,913.00
5	Estimate cost of the vertical extension of Girls Hostel	Rs. 89,49,686.00
6	Estimate cost of the Drain	Rs. 16,74,924.00
7.	Estimate cost of the Brick Boundary Wall	Rs. 6, 20,797.00
8	Estimate Cost of the Repair of Type IV Quarter	Rs. 24,52,822.00
9	Estimate Cost of the Extension of Type IV Quarter	Rs. 26,90,733.00
10	Estimate Cost of the Repair of Type IV Quarter	Rs. 24,52,822.00
11	Estimate Cost of the Extension of Type IV Quarter	Rs. 26,90,733.00
12	Estimate Cost of the Repair of Type III Quarter	Rs. 28,00,327.00
13	Estimate Cost of the Extension of Type III Quarter	Rs. 29,17,115.00
	NEW CONSTRUCTION :	
1.	Estimate cost of the Archery Ground	Rs. 2, 15,85,703.00
2	Estimate Cost of the Hockey ground Synthetic Track	Rs. 7,41,43,712.00
3	Estimate Cost of the Swimming pool	Rs. 6,05,28,338.00
4	Synthetic Athletic track	Rs. 2,62,48,005.00
5	Total	Rs.27,99,10,031.00
6	Add 1 % For Contingency	Rs. 27,99,100.31
7.	Add 1 % For Labour Cess	Rs. 27,99,100.31

8	Add 3 % For Agency Charge	Rs. 83,97,300.97
	Grand Total	Rs. 29,39,05,532.60
	Say	Rs. 29,39,05,533.00

Say Rs 29.40 crores

Justification

As no repairing and renovation work has been carried out by SAI since taking over the complex in 2007, the most of the infrastructures need major renovation. Particularly, major damage occurred in the main building and Indoor Hall in the year 2012 in the cyclone, which needs a major repairing. Further as the number of trainees has been increased in the process of talent hunt and new induction, some new proposals which are highlighted above are also required in order to provide better facilities to the SAI trainees of the SAG Centre. The entire BTC area is dominated by Mongolian origin who has strong and stout physical structure since birth, if provided better training facilities these sportspersons would be able to shine in the International area in future. The performance of the trainees as mentioned above has proved their caliber within a short period of time in spite of not having upto-date infrastructure which are commendable.

Financial implications

The financial implication of the whole project is roughly Rs 29.40 crores. Assam Housing Board has been requested to prepare the detailed estimates for the proposed works.

Financial concurrence of Finance Committee is solicited for approval in principle for Renovation/Up-Gradation Of Existing Infrastructure And New Project To Be Undertaken At Special Area Games (Sag) Center, Kokrajhar, Assam. at an estimated cost of Rs 29.40 Crores