

**KENDRIYA VIDYALAYA SANGATHAN
18 INSTITUTIONAL AREA,
SHAHEED JEET SINGH MARG,
NEW DELHI-110001**

TENDER FOR EMPANELMENT OF DATA COLLECTION AND ANALYSIS AGENCY

**NOTICE INVITING TENDERS (NIT) FOR DATA COLLECTION AND ANALYSIS OF KVS
“SWASTH BACHCHE, SWASTH BHARAT” FITNESS ASSESSMENT DATA FOR 2018-19**

Kendriya Vidyalaya Sangathan is an Autonomous body under Ministry of Human Resource Development funded by Government of India. The Sangathan invites sealed quotations for hiring an agency for collection and analysis of the fitness assessment data of 12.5 Lac children across 1183 KVs in 25 Regions of India, as part of “Swasth Bachche Swasth Bharat”.

Submit dully filled up tender document as per the directions mentioned in the docs by 17.07.2018 upto 3:30 PM to the Joint Commissioner (Trg.), Room no. 104, Kendriya Vidyalaya Sangathan, (HQ), 18 Institutional Area, Shaheed Jeet Singh Marg, New Delhi – 110016

Sd/

Joint Commissioner (Trg.)

PART –I

NOTICE INVITING TENDER AND TERMS & CONDITIONS

Sealed quotations are invited in to bid format (Technical and Financial bid) on “Per child Per Assessment” basis during academic session for:

- a) Capture of Fitness Assessment data of approximately 12.50 Lac students conducted across 1183 KVs using a Mobile Application or importing data through excel sheets
- b) Dashboards for KV HQ, 5 ZIETs, 25 ROs, 1183 Schools and each student detailed scope of work is defined in **Annexure A: Scope of Work.**

The firms/agencies are also required to carry adequate financial status with an annual turnover/revenue from operation of Rs 25 lakhs for each of the last two financial years (2015-16 and 2016-17). Technical & Financial bids to be submitted in separate sealed envelopes “A” and “B”.

As per the tender document there shall be two types of bids namely Technical bid and Commercial bid. The technical bid and commercial bid should be sent in separate sealed envelopes marked as “A” and “B” respectively addressed to the Joint Commissioner (Trg.), Kendriya Vidyalaya Sangathan, 18, Institutional Area, Shaheed Jeet Singh Marg, New Delhi 110016. The technical bid should accompany the Earnest Money Deposit of Rs 25,000/- (Rs. Twenty five Thousand only) in the form of account payee demand draft/banker’s cheque of any scheduled bank in favour of “Kendriya Vidyalaya Sangathan (HQ).The tenders containing technical bid and commercial bid in separate envelopes as above should be put and sealed in an outer cover (bigger envelope) super-scribed as “FOR DATA COLLECTION AND ANALYSIS OF KVS “SWASTH BACHCHE, SWASTH BHARAT” FITNESS ASSESSMENT DATA” due on 17.07.2018 upto 3:30 PM hrs and addressed to Joint Commissioner (Trg.), Kendriya Vidyalaya Sangathan, 18, Institutional Area, Shaheed Jeet Singh Marg, New Delhi 110016. The tenders will be received upto 17.07.2018 upto 3:30 PM. The tender received after stipulated date and time shall not be considered and liable to be rejected summarily.

The technical bids in envelop “A” will be opened on 18.07.2018 at 1100 hrs in the presence of the representative/s of the bidders, who wish to be present (with proper photo identity duly authenticated by the firm), in the Chamber of the Joint Commissioner (Trg.), Kendriya Vidyalaya Sangathan, 18, Institutional Area, Shaheed Jeet Singh Marg, New Delhi 110016. The tenders not conforming to the requirements mentioned above as laid down in the terms and conditions or not accompanied by earnest money are liable to be rejected summarily. All pages of the tender should be signed by the Service Provider with seal. The technical and commercial bids shall be duly filled up in and submitted in original. The writing should be clear and legible. Where figures are furnished, the same are to be written in words also within brackets. All columns in the tender documents should be filled up. Attach Separate sheets wherever necessary.

	Particulars	
1	Description of work	Capture of Fitness Assessment data of approximately 12.50 Lac students conducted across 1183 KVs using a Mobile Application or importing data through excel sheets Creating Interactive Dashboards for analysing Fitness of 12.5 Lac students across 5 ZIETs, 25 ROs and 1185 Schools Detailed SOW defined in Annexure A.
2	Volume of work	As given in the Commercial bid
3	Owner	Kendriya Vidyalaya Sangathan New Delhi
4	Bid Security	Rs.25,000/- (Rs.Twenty Five Thousand only) drawn in

		favour of Kendriya Vidyalaya Sangathan (HQ).
5	Time of Launch of Application	The system should be ready for usage within 30 days from the date of placing the supply order
6	Performance Security Deposit	10% of the contract value
7	Schedule of submission of tender	Upto 15:30 hrs on 17.07.2018
8	Date & time of opening	1100 hrs on 18.07.2018
9	Place of opening	Office of the Joint Commissioner (Trg.), Kendriya Vidyalaya Sangathan, 18, Institutional Area, Shaheed Jeet Singh Marg, New Delhi 110016.

Submission of sealed envelope of tender containing Technical and Commercial Bid will be as follows:

Part-I NIT and Terms and Conditions-

To be submitted by the bidders with the technical bid after signing each and every page indicating the acceptance of all the terms & conditions.

Part-II Technical Bid –

To be submitted in original completed in all respect along with Documents to be attached after duly self-attested.

Part-III Commercial Bid Forms- To be submitted in original as completed in all respect.

- (a) The Terms and Conditions as prescribed in Part –I and Technical bid in Part-II of the tender document should be filled up in original and should be sealed in a separate envelope “A”. The Technical Bid should be super scribed as “Technical Bid-Envelope A” due on 17.07.2018 upto 3:30 PM.
- (b) The commercial bid as prescribed in Part-III of the tender document should be filled in original and sealed in a separate envelope “B”. The commercial bid envelop be super scribed as “Commercial Bid- Envelope “B”.
- (c) The tender comprising of the technical and commercial bid should be signed by the authorised signatory.
- (d) The bid must be unconditional and in the format given in the tender document. Both the envelopes carrying (i) Technical Bid - Envelop A (ii) Commercial Bid -Envelope B should then be put in a single outer bigger envelope, sealed and addressed to the Joint Commissioner (Trg.), Kendriya Vidyalaya Sangathan, 18, Institutional Area, Shaheed Jeet Singh Marg, New Delhi 110016 and superscribed FOR DATA COLLECTION AND ANALYSIS OF KVS “SWASTH BACHCHE, SWASTH BHARAT” FITNESS ASSESSMENT DATA due on 17.07.2018 upto 3:30 PM.

TERMS & CONDITIONS

1. This document states the complete information of date of submission & opening of tenders, period allowed for the work etc.
2. The tenderers shall be deemed to have studied the items, specifications and details of the supplies to be made within the time schedule attached and to have acquainted himself/ themselves with the conditions attached. The tenderers/their representatives are permitted to be present at the time of the opening of the tenders.
3. The tenderer shall quote rates inclusive of all taxes etc as applicable, whatsoever. Rates quoted should include Application Development, Third Party Software Licenses, Support etc. and all kinds of taxes, GST, etc. Separate mention for these activities and taxes will not be accepted.

- Incomplete / Conditional tenders are liable to be summarily rejected. However, the undersigned reserves the right to decide on such a matter in the interest of the Sangathan, if felt necessary.
4. The rates are to be quoted in Indian Rupees only. The tenderer shall quote the prices both in words in figures. In case of difference in words in figures, the rates offered in words shall prevail for consideration.
 5. The rates quoted by the contractor shall hold good and valid for one year. However, the rate contract may be further extended on mutual consent, as deemed fit. No amendment in the rate except increase in the rates of GST during the period of execution of the contract will be accepted.
 6. There should not be any overwriting or corrections in the tenders. If the figure is required to be amended, it should be neatly scored out, the revised figure written above and the same attested with signature and date; otherwise their tender will be liable for rejection.
 7. The sample of the Screens of the Student and School dashboards is required to be submitted with tender duly stamped with SEAL of the firm. The software may be got tested, if felt necessary. If the software is not found as per specifications in the finished product. In addition to the forfeiture of performance security, tenderer shall be penalised by either rejecting the software or penalty of proportionate cost, as may be decided by the undersigned while reserving all the rights in this regard, further without prejudice to blacklist the Service Provider accordingly, if deemed fit.
 8. In the event of acceptance of the quotation and placing of the order for purchase, the articles ordered may be subjected to an inspection by the undersigned or representatives and are liable to be rejected if the articles supplied are not according to the approved samples or do not confirm to the specifications prescribed.
 9. The agency should have at least one single software development unit. The software development facilities of the firm may be subjected to physical inspection by the team authorized by Kendriya Vidyalaya Sangathan, if required. The firm owning the original software will be treated advantageous for speedy completion of works, if other conditions are same. As such, the facility layout may be attached.
 10. The firm/organisation must have the sufficient experience in similar job of data analytics. At least two copies of work orders during the two financial years (2015-16 and 2016-17) from Central/State Govt./PSUs/Reputed Organisations be attached. However, the undersigned reserves the right of any discretion in this regard.
 11. It would not be binding upon the authority to accept the lowest tender. The authority reserves the right to accept the tender in whole or in part, as may be decided. Any dispute shall be subject to the jurisdiction of appropriate Hon'ble Courts in Delhi.

Bid Security :

- 1) The Security of Rs 25,000/- (Rs. Twenty Five Thousand only), will be deposited by the tenderer through bank DD / Pay order drawn in favour of the "Kendriya Vidyalaya Sangathan New Delhi". The tenders without enclosing Bid Security will be rejected summarily. The quotations without Bid Security, will not be accepted.
- 2) The Bid Security of those firms whose tenders are not approved will be refunded. However, no interest will be payable by Kendriya Vidyalaya Sangathan.
- 3) Performance Security Deposit : The successful bidders will have to deposit the performance security at the rate of 5% of estimated value within a week's time from the date of the award of the contract and should be valid up 60 days after the date of completion of contract. The amount of Bid Security will be refunded on receipt of performance Security. If the accepted firm/organisation fails to remit the Performance security within prescribed time, the Bid Security remitted by him will be forfeited and his bid may be held void. The performance security will be released only after the successful completion and final payment of the job. The deposit is liable to be forfeited, if during the period of contract, the services are found to be unsatisfactory in any respect and/or if any of the condition of the contract is contravened/breached, an/or towards any damage caused due to negligence of the contractor or his employees. This forfeiture will be in

addition to any action by Kendriya Vidyalaya Sangathan that the contracting firm may invite upon themselves due to any of the reasons specified above.

- 4) The successful bidder will have to sign the prescribed integrity pact with the Kendriya Vidyalaya Sangathan.
- 5) The successful bidder will maintain the data confidentiality and not part with the data/information in part or whole in any explicit or implicit firm or agency or person. Any violation in this regard will be treated as breach of trust and the Kendriya Vidyalaya Sangathan would be free to impose penalty and or any action ad deemed fit as per rules.

Access to Software: The empanelled Agency will be required to give access to all user groups:-

- a. KVS HQ
- b. ROs
- c. ZIETs
- d. School Principals
- e. Fitness Assessors
- f. Each Student

Payment: The bills shall be prepared in duplicate in favour of the Joint Commissioner (Trg.), KVS HQ and submitted along with the delivery challan duly acknowledged by the Deputy Commissioner (Sports) and an advance stamped receipt for the amount of each bill inclusive of all taxes should be mentioned in each bill. Payment against the bills will be settled by KVS-HQ as per rules.

a) Pre-assessment Preparation: 90% payment

- i) Updated User ID and password issued to all/any school (as required)
- ii) Schools can add/update the details of students who will undergo fitness assessment
- iii) User ID and password of Students generated at the 1183 Kendriya Vidyalayas for doing the assessment
- iv) Schools can generated QR Coded ID Cards

b) Post-assessment: 10% payment

- i) Data of students are available on the Portal (either through the mobile app or uploading of excelsheets by the assessors)
- ii) Dashboards for KV HQ, ZIETs, ROs, Schools, Students reflect
 - 1) Latest fitness assessment data,
 - 2) Analytical reports
 - 3) Latest fitness and health profiles of individual children can be generated and printed by the schools

The assessment to be completed by the individual schools within one month of generation of ID cards and password before each assessment cycle.

Tolerance Clause

It is further clarified that the no. of users (in HQ, ZIETs, ROs, Schools, No. of Children) as shown in the scope of work, may get varied. While it is expected that the number of users will be within variation of 10%, the purchaser reserves the right for any variation in the number of users while placing the supply order for each assessment cycle. The rates quoted will apply in all circumstances.

Unresponsive tenders

The following kind of tenders will be treated as unresponsive tenders :

- i. Not meeting the qualifying criteria i.e. carrying required financial status, regd with the appropriate authorities for carrying out the described works, furnishing the declaration regarding blacklisting on stamp paper etc.

- ii. Tender submitted without DD/PO of EMD amount of Rs 25,000/-
- iii. Unsigned tender document/terms & conditions/pricing bid document
- iv. The information provided by Service Provider is not adequate
- v. The tenderer not agreeing to any of the terms & conditions so listed. The Service Provider should not impose any counter condition and in such case tender shall be summarily rejected.
- vi. The contractor shall not assign or make over the contract, the benefit or burden thereof to any other person or persons or body corporate. No under letting or subletting to any person or body corporate for the execution of the contract or any other part thereof is permitted under any circumstances.

False Information:

In the event of furnishing false/incorrect/incomplete/forged information by the Service Provider, the Bid Security in respect of such Service Provider shall be forfeited. Further during the performance of the contract if it is detected that the contract has been obtained by furnishing the false/incorrect/incomplete/forged information in the tender, the agreement is liable to be terminated and performance security and other payments due to the contractor shall be forfeited without prejudice to the contractor liable to be blacklisted accordingly.

Late Bids:

Any bid received after the due date of submission of the bids prescribed shall be rejected and returned unopened to the Service Provider.

Amendment to Bid documents: At any time prior to the deadline for submission of bids KVS may for any reason, whether at its own initiative or in response to clarification required by any prospective Service Provider, modify the bid document.

Non transferability: This tender is not transferable.

The undersigned does not bind him/her-self to accept the lowest quotation and reserves the right to accept the quotation in whole or, in part, i.e. Accordingly, the undersigned reserves the right to reject any or all tenders without assigning any reasons thereof, either in full or in part.

Joint Commissioner(Trg.)

PART - II

TECHNICAL BID

Information on profile of the Agency with enclosures

To include:

1. Organization Background
2. Relevant Experience of Organization
3. Proposed Methodology (how do you propose to do the assignment)
4. Quality Certifications (eg. ISO 9001:2015, SEI-CMM)
5. Compliance to specifications of required supplies
6. Product literature / brochure
7. Achievements

1	Name of the Firm	
2	Address	
3	Nature of the Firm	
4	Registration Certificate of the Firm	
6	Details of bank Account: Name of the bank Address Account No. Savings/Current Account IFSC Code No. PI enclose a copy of the cheque leaf duly cancelled)	
7	Two Copies of software development/analysis work orders/bills during last 2 years	
9	Copy of the PAN Card of Institution	
10	Copy of GST Registration No.	
11	Copy of Latest IT return/ Clearance Certificates for the financial years 2015-16 & 16-17	
12	Copy of Latest GST/Service Tax returns/Clearance Att ached/Not Attached Certificates for 2015-16 & 16-17	
13	Turnover/revenue from operation for financial year 2015-16 and 2016-17	
14	Audited Account Statements (Balance Sheets & Profit and Loss Account) for the financial years 2015-16 & 2016-17 duly certified by Chartered Accountant & financial year.	
15	Affidavit regarding non blacklisting on Non-Judicial Stamp Paper of Rs. 100/-	
16	Details of the No. of own PCs/Laptops (photo Layout of office)	

17	List of Personnel who will be involved in this assignment Name Qualifications Prior Experience E-mail Phone No.	
17	Details of Bid Security Name of the Bank DD/BC No. Date Amount	
18	SAMPLES OF Mobile/Web Dashboard for Schools and Students, if any	
19	SAMPLE of Mobile/Web Application for data capture/data analytics, if any	
20	Whether all enclosures signed with Seal by the owner/partner/director	

Please assign page no. and indicate against each of the above particulars.

Note:

1. All the documents submitted with this form should be self attested and stamped by the Service Provider.
2. Service Provider will not enclose any other additional documents other than asked above.
3. All the pages of the above enclosures will be serially numbered and the total number of enclosed pages should be mentioned as.....(Total No. Of pages enclosed).

It is certified that I/We have read and understood the above technical specifications and have quoted the rates accordingly. If any deviation is found in the finished book, the firm is liable to any punitive action, as mentioned in the terms & conditions of the tender.

Signature of the Service Provider/

Authorised person with seal

Date & Place

PART - III

COMMERCIAL BID (To be submitted separately)

(To be submitted in original along with the tender)

To,

Dt : / /2018

The Jt. Commissioner (Trg.),
Kendriya Vidyalaya Sangathan,
18 Institutional Area,
Shaheed Jeet Singh Marg,
New Delhi-110067

Sub: Submission of Commercial Bid for **DATA ANALYTICS OF KVS “SWASTH BACHCHE,
SWASTH BHARAT” FOR 2018-19**

Sir,

Having examined the tender documents, terms and condition stipulated therein, specification of work etc., I/we, the under signed offer to execute the work in conformity with the said Scope of Work and conditions of contract.

If our bid is accepted, we shall submit the performance securities as per the conditions mentioned in the contract. We agree to abide by this bid for a period of One Year from the date of opening of financial bid & it shall remain binding upon us and may be accepted at any time before the expiry of that period. The rate contract may be further extended upon mutual consent.

The rates quoted above are applicable for the entire work to be done as per the Scope of Work mentioned in the tender form is encloses. We also agree to deposit the amount of Performance security of 10% of the contract value within a week time from the date of the award of contract, failing which we understand that the amount of bid security will be forfeited by Kendriya Vidyalaya Sangathan as per T&C s. no.6.

Yours faithfully,

Signature of the Service Provider

With Full Name & Seal

PART - III

Commercial/Financial Bid

Quotation of Rates

We agree to comply with the scope of work, as defined by Kendriya Vidyalaya Sangathan (specified in section (Annexure-I)).

This includes the following tasks:

No. of Schools to be issued User ID/Password: 1185 Schools
No. of Teachers to be issued User ID/Password per school: Upto 10
No. of User ID/Password to Regions, ZIETs, HQ: Upto 100

Data capture through Mobile Application/Upload of Excel Sheets: Approximate No. of children whose tests are to be done in an assessment cycle: 12.50 Lacs

Interactive Dashboards to be made available for HQ, ROs, ZIETs, Schools, Teachers and each student for tracking the progress of each student, school, RO and ZIET and Analytics

The per student per assessment cycle of using this platform will be:

Per Student Per Assessment Cost (Rs.)	GST (%)	Total in Rs. (inclusive of GST)

PN: In case the GST rates change, KVS will pay as per the new GST rate. However, the "Cost Per Student Per Assessment" will remain unchanged for the duration of this contract.

Signature of the Service Provider

With Full Name & Seal

Annexure A: Scope of Work

SOW for Swasth Bachche Swasth Bharat Data Capture and Analytics

Objectives

The primary objective of the Swasth Bachche Swasth Bharat is to provide a comprehensive and inclusive “Physical Fitness and Health Profile” for all school going children in KVs.

Coaches/teachers (Fitness Assessors) will input key fitness metrics which help in assessing the fitness level of the child. The secondary objective is to recommends the sport(s) that the child can take up given his/her current level of fitness.

In addition, based on benchmarks the application will recommend possible physical activities and lifestyle changes. These assessments can/will be conducted multiple times a year. All children will be given a login ID and password so that their parents and they can keep track of their progress.

Details

1. Key Objectives

Fitness Assessment for All Children	Sports Skills Assessment for identifying Potential Talent
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2. Inclusive Physical Fitness and Health Profile will be given to Children (All Age, Gender, Normal and Differently Abled) for the following Age Groups:

5-8 years	9-14 years	15-19 years
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3. The Swasth Bachche Swasth Bharat Program will do the following:-

- I. Fitness data for all Children will be compiled and maintained centrally and be used for devising Standardized Indian Fitness Scale/Benchmark over a period of time
- II. Tracking of each Child and each School

4. User Access for different stakeholders:

Stakeholders >	KVS HQ	ZIETs	ROs	School	Child/Parent	PE Teacher/Assessor
<i>Data Access</i>						
National	All	Own Zone	Own Region			
Region/Zone						
29 States/ 7 UTs						
1185 Schools				Own School		Own Schools
12.5 Lac Children				Own		

Scope of Work: “Fitness Assessment Tests for All”

Part A: PE Teacher/Assessor Interface (Mobile App)

1. PE Teachers/Fitness Assessors Interface
 - a. Secured Login and Password
 - b. School and session specific assessments
 - c. Administer different sets of Battery of Fitness Assessment Tests for each age group through the mobile phone, and tag the assessment data with Student's Unique ID by scanning the Student ID Card
 - d. Tutorials and Tips on how to use the Application and how to do the Tests
 - e. **This module must work Offline mode and synchronize data with the central server, whenever mobile is in network range**
 - f. Apart from capturing fitness assessment data through mobile app, there should be provision to upload of assessment data through pre-defined excel sheets.

2. The Tests and variations for these three age groups are outlined as under:

Fitness Parameters	Appropriateness for test for different Age Groups			
	Test Name	5-8 Yrs	9-14 Yrs	15+ Yrs
Body Composition	BMI	Height, Weight	Height, Weight	Height, Weight
Muscular Strength	Bent Knee Sit-ups	-	60 seconds	60 seconds
	Modified Pull-ups	-	Yes	Yes
Flexibility	Sit and Reach	-	Yes	Yes
Endurance	600 Mt Run	-	Yes	Yes
Balance	Flamingo Balance Test	-	Yes	Yes
Agility	Shuttle Run	-	4 x 10 Mt. Shuttle Run	4 x 10 Mt. Shuttle Run
Speed	Sprint/ Dash	-	40 Meter Dash	40 Meter Dash
Power	Standing Broad Jump	-	Yes	Yes
Co-ordination	Plate Tapping	Yes	-	-
	Alternative Hand Wall Toss Test	-	Yes	Yes

Part B: Student Interface

1. Students/Parents Interface
 - a. Each Student and his/her Parents will be able to view the following:

- i. Student Fitness Dashboard and Latest Fitness Assessment Report
- ii. Goal Setting and Recommendations
- iii. View Fitness History and Improvements over time
- iv. Benchmark own performance against Self and National Fitness Index
- v. Athletic children can look at Sports Skills Performance
- b. Individual Report Cards to each student given by School in printed form (*printing of cards will be responsibility of the schools*)

Part C: School Interface

1. Schools Interface

- a. Self Registration Form, wherein schools can register their profile
- b. Individual Login and Password to each School
- c. Upload/updation of latest student data at the beginning of each academic session
- d. Generation of ID Card for each child with unique ID and QR Code
- e. Schools and Academies will be able to view the following:
 - i. School Dashboard
 - ii. Drill down to Class-wise and Student-wise Performance
 - iii. Track Top Performers and Consistent Performers
 - iv. View and Print Report Card of any Student

2. Personal Profile of Students:

- a. The personal information to be captured includes Name, Gender, Class/Section, Roll No, DOB, Aadhar No. or an UID
- b. Additional information fields may be added later.

Part D: Analytics Platform for different Stakeholders

1. Web-based Analytics Platform for KVS

- a. Give/Approve Access to Individual Academies and Schools
- b. Give/Approve Access to Assessors, PE Teachers and Sports Coaches
- c. Define Battery of Fitness Assessment Tests to be conducted (may vary from time to time)
- d. View National Benchmarks of Fitness (for each Age/Gender) as they evolve over period of time:
 1. Age and Gender-wise National Benchmarks
 2. State and Region wise Reference Benchmarks
 3. Dynamic/Progressive, based on data points over a period of time
 4. Healthy Zones/Fitness Levels to be defined based on percentiles and bell curve distribution
 5. Benchmarks to be frozen at the beginning of each academic year

2. Analytics for All Stakeholders (as per access rights)

- a. Track records of all children and view based on fitness levels
 1. Detailed Analytics - filtration, comparisons etc.
 2. Identification of Sports Fit children and Identification of children who need attention
 3. Consistency of Performance i.e. Tracking for Fitness Levels over Years/Camps (each fitness parameter tracked).

3. Tracking will include:

- a. Track records of all children and view based on fitness levels
- b. Analyze by Levels of Fitness of Children.

- c. Tracking for Fitness Levels over Years/Camp
- d. Analyze overall improvement of fitness of any School/School Chain or Academy or Fitness Assessment Partner
- e. Comparison between Regions /Zone, Age Groups, Class-wise Comparisons etc.
- f. Identification of Sports Fit children and Identification of children who need attention
- g. Consistency of Performance i.e. Tracking for Fitness Levels over Years/Camps (each fitness parameter tracked)
- h. View National Benchmarks of Fitness (each Age-Gender has a benchmark)
- i. Define recommended Physical Activity and Lifestyle Changes
- j. Appropriate communication with parents and students
- k. Define Fitness Zone standards based on data captured over time, and defining appropriate grade level use of health-related fitness assessment
- l. Provide instructions on Fitness test protocols, purpose of test, and how information will be applied

Training Program/Rollout Plan

1. Following Manual to be prepared by the appointed agency
 - a. TOT Program for PE Teachers and Assessors:
 - i. Test Protocols and how to do Scoring
 - ii. Data Capture Sheets
 - iii. How to upload the data
 - iv. Generation of Report Cards

2. Proposed TOT Program for Assessors and Teachers

National Training	Zonal Level Trainings	Regional Level Trainings	Cluster Level Trainings	Vidyalaya Level Trainings
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3. Training to be done in following manner
 - a. The Vendor will do National/Zonal Level Training of 100 Trainee Trainers from different ZIETs, in batches of 50 in 2 different locations identified by KVS (*accommodation, travel and incidental expenses will be paid by KVS*)
 - b. Further Zonal Level, Regional Level, Cluster Level and Vidyalaya Level Trainings for School PE Teachers/Fitness Assessors to be conducted by these Master Trainers.
4. Upon successful completion of training and clearing the test, Certification will be given by KVS and Vendor to the Master Trainers.

Considerations

1. Assessment Application to work in remote villages in Offline Mode as well, with Data getting synced whenever there is connectivity
2. Flexibilities Required in the software
 - a. The software must be capable of defining or modifying the battery of fitness assessment tests for all children or sports specific fitness assessment. Types of Fitness Tests that can be defined/alterd through the Application for any of the Physical Fitness components:
 - i. Fundamental Movement Skills (Observation-based)
 - ii. Health Components of Fitness
 - iii. Skill Components of Fitness
 - b. Provision in App for defining new set of Tests
 - c. Points Scale for Fitness Test

3. Server Infrastructure

- a. To be hosted on a Dedicated KVS Server/ Data Center (DC) (*hosting of application will be responsibility of the schools*)
- b. Vendor to ensure a Scalable and Flexible Architecture, with highly optimised Application DB, Web Services and Storage
- c. Performance Requirements: Performance requirements: The number of the online users of can be estimated as 12.5 Lac children. So, the Infrastructure to scale up as required, to potentially capture fitness data of these children each year and run the Mobile App and Analytics seamlessly. Application, Security Hardware and Bandwidth should cater to growing number of new schools, students and other users.
- d. No. of Concurrent Users to be considered at 1%. In case the usage increases (as per monitoring of servers), there needs to be provision to upscale the Hardware and Bandwidth requirements accordingly

4. Non-functional Requirements

- a. Security and VA: Industry standard security should be used to secure data.
- b. Coding: Follow industry standard coding process. Like proper comment, exception, message etc. should be followed.
- c. Platform/Browser independence: The web application should be able to work on any of the modern browsers like Firefox / Explorer / Opera /Chrome, and of the common Operating Systems like Linux and Windows.
- d. Data migration: There should be an easy way to migrate data from the current manual system to a new system. The system should be able to interface with Microsoft Excel for both import and export.
- e. Flexibility: It is desirable to have a system that is flexible enough to allow the developer to convert code in higher version of technology. So, Coding standard should follow accordingly.
- f. Ease of use and Documentation: The software should be designed for extensive customizability. The user-interface should be intuitive and easy to navigate. There should be a proper documentation of the system. This document should be so simple yet precise so that a newly appointed developer/user should do all the things easily.
- g. Audit Trail: History and tracking facilities, maintaining an audit trail.