

Rashtriya Madhyamik Shiksha Abhiyan (RMSA)

**Expression of Interest (EOI) Document for
Environmental Assessment and
Preparation of Environment Management Framework (EMF)**

1. Invitation to EOI : Ministry of Human Resource Development (MHRD) has been implementing a centrally sponsored scheme, Rashtriya Madhyamik Shiksha Abhiyan (RMSA), from 2009-10 to enhance access to secondary education and to improve its quality, while ensuring equity. The Ministry at present is also discussing with development partners (DPs), i.e. World Bank, Department for International Development (DFID) of Government of UK and European Union about possible support for the secondary education sector, particularly for RMSA. As part of the negotiations with the DPs, it is proposed to conduct an Environmental Assessment (EA) and prepare an Environment Management Framework (EMF) for the RMSA programme, through appropriate consultants to be appointed for this purpose. An “invitation for Expression of Interest” has accordingly been published in the ‘The Times of India’ which has also been placed on the web site of the Ministry of Human Resource Development (www.education.nic.in).

2. Brief about objective and scope of work

2.1 Objective: The RMSA programme gives priority to creation and strengthening of physical infrastructure. As per current estimates, this involves creation/upgrading of nearly 11,200 school buildings and strengthening/improvement of about 44,000 schools across the country. Considering the scale of construction activities envisaged under RMSA and to improve environment, health and safety aspects in secondary schools, an environmental assessment study is proposed to be carried out for RMSA that will enable in over-coming existing gaps/deficiencies in the schools and will enable comprehensive and holistic planning in case of new schools. Therefore, the objectives of this consultancy services would be to establish an environment assessment methodology/procedure keeping in mind the objectives and scope of services (listed in section 2.2); review the nature and extent up to which the compliance is being achieved in the existing system in line with the various regulatory requirements; identify the strengths and deficiencies of the existing system and develop a framework, which will help in mainstreaming environmental dimensions in the development and operation of secondary schools.

2.2 Scope of Work: The Environmental Assessment would include:

- (a) Study and review the various acts, rules and regulations of Govt. of India (including those of MHRD) and State Governments regarding environment, health and safety provisions/aspects that are required to be followed by the schools.

- (b) Detailed review of the nature and extent of compliance of environment, health and safety aspects in government and government aided schools (covering both existing secondary schools and those that are proposed for upgrading from upper primary to secondary level).
- (c) Identification of good practices, strengths, deficiencies and gaps in the existing system/s with regard to planning, implementation, enforcement and monitoring of environment, health and safety issues in schools.
- (d) Preparation of an Environment Management Framework (EMF) that provides/ recommends a comprehensive set of measures to ensure that school buildings and the over-all campus, covering both new and existing construction are environment-friendly/sustainable.
- (e) Development of a detailed capacity building plan for sensitizing and training various stakeholders, particularly the state directorates to guide them on the implementation of the environment management framework.

The **key tasks** of the consultancy services are as follows:

Task 1: Review Existing Provisions and Establish detailed methodology/ procedure for conducting Environmental Assessment (EA)

- (i) Review and understand the various acts, rules and regulations of Govt. of India (including those of MHRD) and State Governments regarding environment, health and safety provisions/aspects that are required to be followed by the secondary schools.
- (ii) Review the existing systems (institutional, financial and human) of the secondary education sector at national, State, District and Block level regarding environmental management and health and safety in secondary schools. This should include review of planning, delivery, monitoring, and reporting systems through collection and assessment of primary (small representative sample including government, govt. aided and private in advanced and lagging States, in rural and urban locations) and secondary data/information. Five (5) States, one each from different regions of country (North, South, East, West, North-East), may be covered and 10 representative schools in each State may be selected for the assessment. 60% of the schools selected may be Govt. schools, and the rest Govt.- aided.
- (iii) Identify and provide an evidence-based explanation of the critical issues and risks that need to be assessed in detail and establish an EA procedure, satisfactory to MHRD and the Development Partners. The critical issues and risks should be presented in order of priority.

Task 2: Conduct Environment Assessment (EA)

- (iv) Carry out a detailed environment assessment of secondary schools in line with the identified issues/risks and agreed

methodology. This review and assessment must include, but may not be limited, to the following aspects pertaining to:

- Siting/location of the school
 - Planning and Lay-out of the campus (including orientation of buildings; internal circulation arrangements)
 - Structural safety aspects (application and adherence to building codes; condition of buildings)
 - Building Design (building lay-out; space for various activities; materials used)
 - Class room design (space availability; natural light and ventilation; display arrangements)
 - Library and laboratory design (space availability; natural light and ventilation; display arrangements)
 - Measures for Disaster Risk Management
 - Facilities for Physically Challenged
 - Water management in the school (drinking water arrangements; its usage for other purposes; water supply sources and quality)
 - Drainage arrangements
 - Sanitation arrangements and its condition, including separate toilets for boys and girls.
 - Energy use and management
 - Waste management (collection and disposal)
 - Exposure to pollution particularly dust, toxic fumes, contaminated water and noise.
 - Fire and Electrical Safety Practices
 - Storage, handling and use of various toxic/hazardous materials (such as chemicals used in laboratories).
 - Specific safety measures/precautions in the laboratories.
 - First aid and emergency response arrangements
 - Over-all operation and maintenance aspects (housekeeping; cleanliness and hygiene)
- (v) Assess the capacity for complying with current environment, health and safety requirements at various levels including students, teachers and staff from school management and state directorate.
- (v) Identify and make a comprehensive list of items/aspects and areas/sections where gaps/deficiencies exist.
- (vi) Identify the good practices that are being followed/adopted, which can be used as dissemination and potential scaling-up.

Task 3: Preparation of Environment Management Framework (EMF)

- (vii) Review norms, experience and implementation mechanisms to identify global best practices with regard to environmental management in schools.
- (viii) Recommend specific actions, and specify associated financial and management costs (e.g. technical capacity), that are required to overcome deficiencies and to strengthen/improve environment, health and safety conditions in schools focusing on planning, design, construction and maintenance elements. The required measures will be clearly (and separately) identified for new buildings and retro-fitting/improving existing structures.
- (ix) Prepare an Environment Management Framework that can serve as a comprehensive and systematic guide towards making secondary schools (both new and existing ones) environment friendly/sustainable.
- (x) Draw up a draft manual for whole school plan addressing all environmental concerns.

Task 4: Training and Capacity Building

- (xi) Develop a detailed capacity building plan for improving awareness and knowledge on environment, health and safety requirements at various levels.

3. Instructions to the consultants

3.1 Place of study and time lines: The assessment is time bound and is required to be completed within a maximum of Five months (22 weeks). The consultants are expected to visit at least 5 representative states in different regions of the country. The key time lines of the assessment are indicated below:

1. An inception report covering Task 1 within 2 weeks of the start of the assignment
2. A draft EA report within 12 weeks from the start of the assignment
3. A draft EMF within about 20 weeks from the start of the assignment
4. Report on Training and Capacity Building within 20 weeks from the date of commencement of the consultancy services.
5. A final report (EA, EMF and Training Report as separate volumes) shall be submitted within 2 weeks from the date of receipt of comments from MHRD and the Development Partners.

The Consultant would be expected to work closely with Govt. of India and the DPs. The reports should be concise and to the point, addressing the specific tasks outlined above.

3.2 Bid Processing Fee: No fees are required to be paid for submission of proposals.

4. Pre-qualification criteria: The qualifications of the consultants are given below:

Position	Nos.	Qualifications	Time on Task
Team Leader – Environment Specialist	1	About 10 years of relevant experience in planning, designing and implementing environment management plans/ frameworks for public buildings, preferably school buildings. The candidate should have a Master’s degree in Environmental Planning/Sciences/Ecology and Environment. Considerable knowledge of education sector will be important and an experience of about two years in projects funded by international financing institutions will be of added advantage. The candidate must have proven record of work as Team Leader/Deputy Team Leader in conducting environment assessment/audit.	Full time for <u>5</u> months
Environmental Planner at National level	1	A background in Environment Planning and at least five years of relevant work experience in carrying out environmental assessment studies and preparation/implementation of environment management plans and/or framework is necessary. The candidate must have proven record of work as Environment Planner in infrastructure/building construction works.	Full time for <u>5</u> months
Occupational Health and Safety Specialist	1	The person will be an Occupational Health and Safety Specialist with more than 5 years of experience. The candidate must possess an OHSAS 18001 certificate and should have good knowledge on OHSAS requirements, particularly in relation to building projects. Knowledge of international best practices will be important.	Full time for <u>3</u> months
Architect-Civil Engineer	1	The position requires an architect-civil engineer, with at least 10 years of work experience. Knowledge of various design codes, particularly the norms for school design is essential. The candidate must have capability to assess the safety requirements for construction of structures including safe construction methodologies.	Full time for <u>3</u> months

5. Format for submission: The proposal may be submitted in the following format:

1. Name of the firm/Organisation:
2. Whether Government or Private :
3. Experience of the firm/ organisation (please attach brochures and organisation's profile)
 - 3.1: Number of years of experience
 - 3.2 : Core Business Areas
 - 3.3: Technical and managerial organization of the firm
 - 3.4: Past experience of studies of similar nature
 - 3.5: Past experience in carrying out studies in Secondary / Elementary education:
 - 3.6: Studies carried out in India
4. Name and Qualifications of the key staff in the following format:

Position	Educational Qualification	Present/ recent job profile	Experience in Similar Assignments (EA and EMP/EMF preparation)

5. States proposed to be selected for field visit:
6. Whether the proposed time lines are acceptable:
7. Financial strength of the firm:
 - 7.1 Turn over figures for the last 3 years:
 - 7.2 Net profit figures for the last 3 years:
8. Any other information:

6. Last Date of Submission of EOI response: The last date for submission of proposal is

7. Place and mode of submission: The proposals should be submitted to Mr. Satish Nambudiripad, Director, Department of School Education & Literacy, Ministry of Human Resource Development, Room No. 221, C-Wing,

Shastri Bhawan, New Delhi by 5.00 p.m on This may also be submitted through e-mail to nambudiripad.edu@nic.in so as to be electronically received by the stipulated date and time.