

# COMMONWEALTH GAMES 2010

## Press Notice

### Invitation for Pre-Qualification of Contractors for roof of Jawaharlal Nehru Stadium

1. The Executive Engineer, Commonwealth Games Project Division-II, CPWD, J.N. Stadium, Lodhi Road, New Delhi-110003, on behalf of the President of India invites pre-qualification applications from reputed Indian and international contractor(s) for the work "**Construction of new Fixed Tensile Membrane Roof over seating area.**" The work will include concrete substructure and steel superstructure, new steel ramps, Lighting (sports, general and architectural), Public address systems, etc. including dismantling of existing ramps and lighting towers at Jawaharlal Nehru Stadium Complex, New Delhi for Commonwealth Games-2010"

Approximate Cost: Rs. 220 Crores USD 53.65 Million

Period of completion: 20 Months.

The project has two main components as under :

- (i) Civil Works (including pile foundation, steelworks, cable net and membrane roof):  
INR 200 Crores (USD 48.78 million)
- (ii) Electrical Works including Lighting (sports, general and architectural) and Public Address Systems: INR 20 Crores (USD 4.87 million)

2. Contractors who fulfill the following criteria shall be eligible to apply:

#### INITIAL CRITERIA FOR ELIGIBILITY

- (i) The contractor may be a firm, Joint Venture, Consortium or a partnership company, hereinafter called "the contractor". The international contractors are allowed to participate. The lead member shall be an **Indian contracting firm having experience of fabrication and erection of steel structures in Industrial (erection height of 20 m and above)/ bridge / airport/ shipyard/ stadium/ sports arena.**
- (ii) The lead member or his joint venture/consortium partner should have adequate past experience in deep pile foundation (using power driven rotary rigs).
- (iii) The job involves high precision steel fabrication with submerged arc continuous automatic welding and its precise erection upto a height of 45 metres at site. The lead contractor should have satisfactorily executed steel fabrication & erection works as specified in Para 2 (i) above, of not less than 3000 tonnes on any completed project, in any one year in the last five years. The contractor should have experience and workshop facilities for fabrication of butt welding with submerged arc continuous automatic welding machine.
- (iv) The contractor (the lead member or his JV/ consortium partner) should have satisfactorily completed at least one work of providing membrane roof over Stadium/ Sports Arena/airport etc with membrane area not less than 25,000 m<sup>2</sup> in the last five years or he may have an associate who have satisfactorily completed at least one work of providing membrane roof over Stadium / Sports Arena/airport with membrane area not less than 25,000 m<sup>2</sup> in the last five years. The contractor should submit full particulars of at least three such associates along with bid document as per the enclosed format.
- (v) For sports lighting, the contractor shall associate specialized agencies with experience of having completed at least one sports lighting work in a stadium / sports arena of a capacity not less than 25,000 spectators in the last five years. The contractor should submit full particulars of at least three such associates along with bid document as per the enclosed format.

- (vi) For PA system, the contractor shall associate specialized agencies with experience of having completed at least one PA system work in a stadium /sports arena/auditorium (capacity not less than 25,000 spectators for outdoors or not less than 5000 spectators for indoor stadium/sports arena/auditorium) in the last five years. The contractor should submit full particulars of at least three such associates along with bid document as per the enclosed format.
- (vii) The contractor or any member of joint venture / consortium or sub-contractor or associate should have satisfactorily completed at least one work of providing, installing and pre-stressing of fully locked cables of 150 tonnes in a project in the last five years.
- (viii) The lead contractor and his joint venture / consortium partner individually, should have average financial turn over on construction works not less than INR 250 crores during last three years ending 31st March 2007.
- (ix) The lead contractor and his joint venture / consortium partner individually, should not have incurred any loss in more than two years during last five years ending 31st March 2007.
- (x) The lead contractor and his joint venture / consortium partner individually, should have a solvency of not less than INR 150 Crores.
3. Desirous contractors may obtain pre-qualification document upto 4.00 PM on **06.06.2007** on request in writing to the Executive Engineer, Commonwealth Games Project Division-II, CPWD, Jawaharlal Nehru Stadium, Lodhi Road, New Delhi, on payment of non-refundable amount of Rs. 5,000/- as the cost of document and scrutiny money. Payment shall be made in the form of Pay order / Demand Draft of a Schedule Bank issued in favour of **Executive Engineer, Commonwealth Games Division-I, CPWD, New Delhi**.
4. Application for pre-qualification supported by prescribed annexures should be submitted in sealed envelope duly superscribed with the name of work and due date of opening in the office of **Executive Engineer, Commonwealth Games Division-II, C.P.W.D., Jawaharlal Nehru Stadium, New Delhi**. The application will be received upto 3.00 P.M. on **25.06.2007** and will be opened by the Executive Engineer or his authorized representative in his office on the same day at 3.30 P.M. Pre-qualification document for this work is also published on website **www.tenderhome.com** for information only. **The contractors will not be permitted to submit downloaded document on the basis of document published on website.**
5. If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up work in CPWD. The department reserves the right to verify the particulars furnished by the applicant independently.
6. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of pre-qualified contractors to any number deemed suitable by it, if too many applications are received satisfying the basic P.Q. Criteria.
7. The Pre-bid conference will be held at 11.00 AM on **12.06.2007** in the Conference Hall, Office of Superintending Engineer, Commonwealth Games Project Circle – I, CPWD, Gate No. 31, Jawaharlal Nehru Stadium, Lodhi Road New Delhi - 110003.

**Executive Engineer  
Commonwealth Games Division-II  
CPWD, J.N. Stadium, Lodhi Road  
New Delhi-110003.**

# **COMMONWEALTH GAMES-2010 PROJECT**

## **PRE-QUALIFICATION DOCUMENT**

FOR

### **JNS STADIUM COMPLEX PACKAGE-I**

**SH: CONSTRUCTION OF NEW FIXED TENSILE MEMBRANE ROOF OVER SEATING AREA**

**APPROX. ESTIMATED COST : Rs. 220 Crores  
TIME PERIOD : 20 Months**

### **CENTRAL PUBLIC WORKS DEPARTMENT**

**COMMONWEALTH GAMES PROJECT, JAWAHARLAL NEHRU STADIUM COMPLEX  
LODHI ROAD, NEW DELHI – 110003 (INDIA)**

**NAME OF WORK: - CONSTRUCTION OF NEW FIXED TENSILE MEMBRANE ROOF OVER SEATING AREA.**

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Certified that this document consists of 30 pages numbered from 01 to 30 . (excluding the cover page).

Executive Engineer (Electrical)  
Commonwealth Games Electrical Division-I

Executive Engineer  
Commonwealth Games Division- II

Superintending Engineer (Electrical)  
Commonwealth Games Electrical Circle

Superintending Engineer  
Commonwealth Games Circle - I

Approved

Project Manager  
Commonwealth Games Project  
Central Public Works Department

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11. The Pre-bid conference will be held at 11.00 AM on \_\_\_\_\* in the Conference Hall, Office of Superintending Engineer, Commonwealth Games Project Circle – I, CPWD, Gate No. 31, Jawaharlal Nehru Stadium, Lodhi Road New Delhi - 110003.

**Executive Engineer  
Commonwealth Games Division-II  
CPWD, J.N. Stadium, Lodhi Road  
New Delhi-110003.**

Note : ( \* ) To be filled in by EE

**SECTION I**  
**BRIEF PARTICULARS OF THE WORK**

1. Salient features of the work for which pre-qualification applications are invited are as under :-

Sl. No.	Name of work	Approx. cost (INR)	Period of completion
1	"Construction of New Fixed Tensile Membrane Roof over seating area".	220 Crores	20 Months

2. The work is situated at Jawaharlal Nehru Stadium at Lodhi Road, New Delhi, INDIA.

**3.0 General :**

This work will include concrete substructure and steel superstructure, new steel ramps, lighting (sports, general and architectural), public address system etc. including dismantling of existing ramps and lighting towers at Jawaharlal Nehru Stadium Complex, New Delhi for Commonwealth Games-2010. The general features and major components of the work are as under :

**3.1 Civil Work :**

The existing Jawaharlal Nehru athletics stadium is having seating arrangement, in two tiers. The lower tiers accommodate 18,000 spectators whereas the upper tiers accommodate 57,000 spectators. The outer building line of the stadium is in the shape of an ellipse with a major axis length of approx. 290 m. and a minor axis length of approx. 245 m. It is proposed to provide a fixed tensile membrane roof over the seating area in the stadium. The substructure shall comprise of pile foundation with pile cap of suitable sizes. The superstructure shall consist of shear walls placed all around the stadium at a distance of approx. 2 m from the existing building line. The shear walls, which will be taken to a height of approx. 4.0 m, shall support the steel structure. The steel structure, made of high strength steel, consists of four major groups of elements, outer steel colonnades (X-frames), inner colonnade structure (V-frame), upper compression ring (box hollow built up section) and lower compression ring (box hollow built up section). The available width between the two sets of frames shall house the steel access ramps for the seating tiers. The height of the X-frames from ground level shall be approx. 45 m. The outer and inner frames shall support steel compression rings and the same shall be tied to the tension ring over the inner edge of the seating area with fully locked steel cables. The structural steel work shall require precision fabrication and sophisticated erection techniques.

**3.1.1 Roof Structure**

The proposed cable structure has been designed based on the spokes wheel principle. It represents an aesthetically and technically unique structure. The overall roof geometry given by the architectural idea, has been used to introduce two strong circumferential

compression rings, supported by the X-shaped circumferential colonnade structure for the outer and the V-shaped colonnade structure for the inner compression ring, both colonnades springing from the top of shear wall level. The gap between inner and outer supporting structure creates the envelope for all access ramps. The upper ring is designed with a larger diameter than the lower ring, resulting in an inclined colonnade structure. High strength fully locked cables as structural members for the spokes and similar ring cables for the tension ring have been used. The tension ring shall comprise of a bundle of steel cables. Radial ridge cables span from upper intersection of columns and upper compression ring to the inner ring cable. A second set of radial valley cables span from the lower intersection of inner columns and lower compression ring to the inner ring cable. Over the cable net shall be fixed the PTFE coated fiber glass membrane. The membrane spans between ridge and valley cable and covers almost all spectator areas and partially the access ramps. It provides a more or less leveled surface in the front portion of the roof, which can be used for light projections and illuminations from below. For the membrane, a PTFE coated glass fiber membrane with excellent features in terms of tensile strength and anti adhesive behavior is proposed, to meet requirements of long lifetime and low maintenance.

The valley cables also support a circumferential catwalk which not only provides maintenance access to the cables, lighting and PA system equipments but also houses part of these equipments. The steel truss structure will be equipped with a steel grid as walkway and membrane area on the outer side for advertisements and if required projections. The roof superstructure will be subjected to dead loads, wind and maintenance loads. In addition there are loads from the stadium lighting, loudspeakers, switching cabinets, wiring and the operations and maintenance of technical equipments.

**3.1.2 Foundation system :** Foundation is proposed as cast in situ piles of 1200 mm diameter. Foundation for the new structure is independent of existing stadium foundation. All the forces have to be transmitted to the supporting concrete shear walls and from there into the pile cap and piles.

**3.1.3 Dismantling Works :** The contractor shall be required to demolish and dispose off the existing concrete ramps. Similarly, the existing light towers shall also be dismantled and disposed off. The work shall be carried out in a manner so that there is no damage to the existing main stadium structure. In case of any damage, the same shall be made good at the contractor's risk and cost.

## **3.2 Electrical Works:**

The following electrical & Mechanical (E & M) services are included in the work: -

### **3.2.1 Lighting (Sports, General and Architectural Illumination) :**

An effective and efficient lighting system for the Field of Play to provide high quality lighting for all constituents, but athletics & broadcasters in particular is required to be provided as per International Sporting Federations & HDTV requirements. The catwalk provided in the roof and the flood light pylons shall be used for the cabling and fixing of fixtures. The scope of work shall also include

the cabling, control panels, mimic panels & main control room equipments. At least 3 stages of switching for track & 3 stages for the central field shall be provided. The scope of work will also include lighting of spectator's areas as well as that of ramps / staircases leading to upper concourse itself. The architectural / special effect illumination for the membrane roof shall also be provided.

### **3.2.2 P.A. System work :**

A Public Address system for covering all the spectators areas (including upper and lower tiers), upper and lower concourse, ramps, Field of Play etc. shall be provided for the stadium. It should be suitable for games as well as for the legacy requirement. The system shall be designed for speech and music both. The centralized monitoring and control room shall be provided for all the equipments.

### **3.2.3 Other E & M Services:**

There shall be some minor E & M works involved in the Package for the works related to the roof, ramps, staircases etc. which will also have to be done by the firm.

### **3.3 Comments on erection :**

The department has evolved a preliminary erection scheme for the guidance of the contractors. However, the final erection scheme shall be formalized and finalized by the contractor. For this purpose, necessary designs shall be submitted by the contractors for approval of the department prior to commencement of work.

### **3.4 Rough quantities**

- Structural Steel work 8500 tons (Inclusive of corrosion protection)
- Structural Steel Catwalk 160 tons
- Fully Locked Cable for Roof 400 tons
- Membrane Roof PTFE coated glass fiber 54000 m<sup>2</sup> (actual area)
- Pile Foundation (Approx. 270 Nos. 1200 mm diameter bored cast-in-situ piles)

The above requirements of the structure are tentative and are likely to change and have been provided as a guide only.

**4.0** The work is of composite nature involving civil and electrical work. The execution of electrical works including Lighting (sports, general and architectural), Public Address System and other related E & M works shall be executed through separate associated agencies. The main contractor is expected to have proper experience of coordination of such activities of works.

**5.0** Works shall be executed generally according to General Conditions of Contract (with upto date amendments) for Central P.W.D. works available separately at printer's outlet. The applicant may obtain the address of the outlets from the Executive Engineer

**6.0.** The contractor shall work in close coordination with other contractor(s) working in the same complex.

## SECTION II

### INFORMATION & INSTRUCTIONS FOR APPLICANTS

#### 1.0 General :

- 1.1 Letter of transmittal and forms for pre-qualification are given in Section III.
- 1.2 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "Nil" or "No such case" entry should be made in that column. If any particulars/query is not applicable in case of the applicant, it should be stated as "not applicable". The applicants are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the applicant being summarily disqualified. Applications made by telegram or telex and those received late will not be entertained.
- 1.3 The application should be typewritten neatly in MS Word in A-4 size page. The applicant should sign each page of the application.
- 1.4 Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialing, dating and rewriting. Pages of the pre-qualification document are numbered. Additional sheets, if any added by the contractor, should also be numbered by him. They should be submitted as a package with signed letter of transmittal.
- 1.5 References, information and certificates from the respective clients certifying suitability, technical know how or capability of the applicant should be signed by an officer not below the rank of Executive Engineer or equivalent.
- 1.6 The applicant may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of pre-qualification document unless it is called for by the Employer.
- 1.7 Any information furnished by the applicant found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering/taking up of work in CPWD. If such applicant happens to be enlisted contractor of any class in CPWD, his name shall also be removed from the approved list of contractors.
- 1.8 The pre-qualification document in prescribed form duly completed and signed should be submitted in a sealed cover. The sealed cover super scribed "**Prequalification document for Construction of New Fixed Tensile Membrane Roof over**

**seating area for Jawaharlal Nehru Stadium for Commonwealth Games-2010”** shall be received by the Executive Engineer, or his authorised representative **upto 3.00 PM on 25.06.2007**. Documents submitted in connection with pre-qualification will be treated confidential and will not be returned.

**1.9 Prospective applicants may request for any clarification of the project requirements and pre-qualification document. Any clarification given by the Employer will be forwarded to all those who have purchased the pre-qualification document. No request for clarification will be considered after closure of the Pre-bid meeting.**

**2.0 Definitions :**

In this document the following words and expressions have the meaning hereby assigned to them.

**2.1 Employer :** means the President of India, acting through the Executive Engineer, Commonwealth Games Project Division-II, CPWD, Jawaharlal Nehru Stadium, Lodhi Road, New Delhi-110003.

**2.2 Applicant :** means the individual, proprietary firm, firm in partnership, limited company private or public or corporation, Joint Venture / Consortium firms.

**2.3 Year :** means "Financial Year" unless stated otherwise.

**3.0 Method of application :**

**3.1** If the applicant is an individual, the application shall be signed by him above his full typewritten name and current address.

**3.2** If the applicant is a proprietary firm, the application shall be signed by the proprietor above his full typewritten name and the full name of his firm with its current address.

**3.3** If the applicant is a firm in partnership, the application shall be signed by all the partners of the firm above their full typewritten names and current addresses or alternatively by a partner holding power of attorney for the firm. In the latter case a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.

**3.4** If the applicant is a limited company or a corporation, the application shall be signed by a duly authorised person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The applicant should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.

**3.5** If the applicant is a Joint Venture firm / Consortium, the application shall clearly state that partners in the joint Venture / Consortium will be jointly and severally responsible for performance under the contract. It should also state which partner will be acting as the lead partner on behalf of the J.V. / Consortium in all its relations and communications with the department. A detailed memorandum of understanding between the partners of such Joint venture / Consortium stating

inter-relationship and division of work between the partners should be submitted along with the bid for proper examination by the department. A power of attorney signed by all partners must accompany the bid authorizing the lead partner to submit and negotiate the proposal on their behalf. **In case of J.V. / Consortium, all payments shall be made in the name of the Indian lead partner.**

**4.0 Final decision making authority:**

The employer reserves the right to accept or reject any application and to annul the pre-qualification process and reject all applications at any time, without assigning any reason or incurring any liability to the applicants.

**5.0 Particulars provisional :**

The particulars of the work given in Section-I are provisional. They are liable to change and must be considered only as advance information to assist the applicant.

**6.0 Site visit :**

The applicant is advised to visit the site of work, at his own cost, and examine it and its surroundings himself and collect all information that he considers necessary for proper assessment of the prospective assignment.

**7.0 Initial criteria for eligibility for Pre-qualification:**

- (i) The contractor may be a firm, Joint Venture, Consortium or a partnership company, hereinafter called "the contractor".  
The international contractors are allowed to participate. The lead member shall be an **Indian contracting firm having experience of fabrication and erection of steel structures in Industrial (erection height of 20 m and above)/ bridge / airport/ shipyard/ stadium/ sports arena.**
- (ii) The lead member or his joint venture/consortium partner should have adequate past experience in deep pile foundation (using power driven rotary rigs).
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- (ix) The lead contractor and his joint venture / consortium partner individually, should not have incurred any loss in more than two years during last five years ending 31st March 2007.
- (x) The lead contractor and his joint venture / consortium partner individually, should have a solvency of not less than INR 150 Crores, certified by his Bankers. Solvency certificate should not be older than one year from the date of opening of Prequalification bids.

7.1 The bidding capacity of the contractor/ applicant should be equal to or more than the cost of the work. The bidding capacity shall be worked out by the following formula:

Bidding Capacity =  $A \cdot N^2 - B$ , where,

A = Maximum value of construction works executed in any one year during the last seven years taking into account the completed as well as works in progress upto 31.03.2007. **The agencies must submit the details of value of work done (for each year), accordingly, upto 31.03.2007.**

N = Number of years prescribed for completion of work for which pre-qualification application has been invited.

B = Value of existing commitments and on going works to be completed during the period of completion of work for which pre-qualification has been invited.

In case of Joint Venture/ Consortium, bidding capacity of individual members shall be worked out and weightage to each member will be given as per the proportion of their participation in Joint Venture/ Consortium to work out the bidding capacity of Joint Venture/ Consortium. **No weightage shall be given to the work to be done by the subcontractor / associate.**

7.2 The applicant should own construction equipments required for the proper and timely execution of the work. Else, he should certify that he would be able to manage the equipment by hiring etc. and submit the list of firms from whom he proposes to hire, as well as details of such arrangement.

7.3 The applicant should have sufficient number of Technical and Administrative employees for the proper execution of the contract. The applicant should submit a list of these employees stating clearly how these would be involved in this work. The applicant should also indicate the strength and capability of planning and design office.

7.4 The applicant's performance for each work completed in the last 7 years and in hand should be certified by an officer not below the rank of Executive Engineer or equivalent as listed in Form "D".

#### 7.5 **Joint Venture / Consortium**

The application may be submitted by an individual contractor or jointly in Joint Venture (JV) / Consortium. In case of Joint Venture / Consortium, there should be an agreement / Memorandum of Understanding (MOU) executed by the members of joint venture / Consortium mentioning interalia the following:

- a) That they agree to work jointly for the assignment.
- b) That they agree to be jointly and severally responsible for the assignment.
- c) The division of responsibility both in terms of resources and technical inputs.
- d) The share of each member in the total contract amount of the joint venture / Consortium. Each member will be liable to the department for their share of contract value and assigned role. However, the lead contractor will be responsible to the department for the total work.

The Agreement / MOU will clearly indicate lead member / contractor who will be responsible for bidding and completion of work as given in Para 3.5 above.

In case the contractor or Joint Venture / Consortium decides to have associate for membrane / cable / electrical works, a

consent letter from such intending associate should be enclosed clearly indicating the scope of work / area of participation assigned to them and commitment that they would be responsible in their area of participation.

During the construction period, under exceptional circumstances, change of member of the Joint Venture / Consortium and/or subcontractor except the lead contractor may be allowed with prior approval of CPWD subject to replacement of the member by equally competent Joint Venture/ Consortium member to the satisfaction of CPWD.

The details as per form "G" shall be submitted along with the application.

## **8.0 Evaluation criteria for Pre-qualification:**

### **8.1 For the purpose of pre-qualification applicants will be evaluated in the following manner:**

- 8.1.1 The initial criteria prescribed in para 7.0 above in respect of experience in completed works, bidding capacity and financial turn over etc. will first be scrutinised and the applicant's eligibility for pre-qualification for the work be determined.
- 8.1.2 The applicants qualifying the initial criteria as set out in para 7.0 and 7.1 above will be evaluated for following criteria by scoring method on the basis of details furnished by them.

(a) Financial strength (Form 'A')	Maximum 20 Marks
(b) Experience in similar nature of Work during last seven years (Form 'B')	Maximum 20 Marks
(c1) Performance report of works – Time over run (Form 'D')	Maximum 15 Marks
(c2) Performance report of works – Quality (Form 'D')	Maximum 15 Marks
(d) Personnel and Establishment (Forms 'E' & 'E-I')	Maximum 05 Marks
(e) Plant & Equipment (Form 'F')	Maximum 10 Marks
(f) Design / Computer facilities (Form 'E-2')	Maximum 15 Marks

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**Total**

**Maximum 100 Marks**

To pre-qualify, the applicant must secure at least (60%) sixty percent marks in criteria (a), (b) & (c2) above (i.e. Financial Strength, Experience in works of similar nature & Performance Report of works - Quality), (50%) fifty percent marks in each of the other criteria and (70%) seventy percent marks in aggregate.

The department, however, reserves the right to restrict the list of pre-qualified contractors to any number deemed suitable by it.

### **8.2 For the purpose of pre-qualification of Membrane / Cable Associates, they will be evaluated in the following manner :**

- 8.2.1 The initial criteria prescribed in para 7.0 above in respect of experience in completed works will first be scrutinized and the associate's eligibility for pre-qualification for the work be determined.
- 8.2.2 The associates qualifying the initial criteria in para 8.2.1 will be evaluated for the following the criteria by scoring method on the basis of details furnished by them.

(a) Financial strength (Form 'A')	Maximum 20 Marks
(b) Experience in similar nature of Work during last seven years (Form 'B')	Maximum 20 Marks
(c1) Performance report of works – Time over run (Form 'G-1' / 'D')	Maximum 15 Marks
(c2) Performance report of works – Quality (Form 'G-1' / 'D')	Maximum 15 Marks
(d) Personnel and Establishment (Forms 'E' & 'E-I')	Maximum 05 Marks
(e) Plant & Equipment (Form 'F')	Maximum 10 Marks
(f) Design / Computer facilities (Form 'E-2')	Maximum 15 Marks

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**Total** **Maximum 100 Marks**

To pre-qualify, the associate must secure at least (50%) fifty percent marks in each of the above criteria and (60%) sixty percent marks in aggregate.

The department, however, reserves the right to restrict the list of pre-qualified associate to any number deemed suitable by it.

8.3 For the purpose of pre-qualification of Electrical (Sports lighting / Public Address system) associates, they will be evaluated in the following manner :

8.3.1 The initial criteria prescribed in para 7.0 above in respect of experience in completed works will first be scrutinized and the associate's eligibility for pre-qualification for the work be determined.

8.3.2 The associates qualifying the initial criteria in para 8.3.1 will be evaluated for the following criteria by scoring method on the basis of details furnished by them.

(a) Financial strength (Form 'A')	Maximum 15 Marks
(b) Experience in similar nature of Work during last seven years (Form 'B')	Maximum 20 Marks
(c1) Performance report of works – Time over run (Form 'D')	Maximum 10 Marks
(c2) Performance report of works – Quality (Form 'D')	Maximum 10 Marks
(d) Personnel and Establishment (Forms 'E' & 'E-I')	Maximum 10 Marks
(e) Design / Computer facilities (Form 'E-2')	Maximum 20 Marks
(f) Backup Service setup and arrangement (Form 'G-2' / 'G-3')	Maximum 15 Marks

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**Total** **Maximum 100 Marks**

To pre-qualify, the associate must secure at least (50%) fifty percent marks in each of the above criteria and (60%) sixty percent marks in aggregate.

The department, however, reserves the right to restrict the list of pre-qualified associate to any number deemed suitable by it.

8.3.3 For Sports Lighting, the associate shall be an internationally reputed manufacturer of the Sports lighting equipment (fittings, control gears & lamps etc.). They should also have in house design facilities.

8.3.4 For PA system, the associate shall be an internationally reputed manufacturer. For erection only he may depute his authorized system integrator & installer (with minimum 3 years past association with the firm) of the PA system products authorized for this work by the original reputed manufacturer of the PA systems (Speakers, mixers, amplifiers, etc.) as the case may be. The manufacturer, in his consent letter, shall clearly indicate the name of such system integrator & installer, if he is himself not willing to do the execution. The design shall be done by the original manufacturer who shall be responsible for effective execution of the work at site by their authorised agency to satisfy all the required parameters.

8.4 Even though an applicant / associate may satisfy the above requirements, he would be liable to disqualification if he has:

- (a) made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the pre-qualification document, for the Joint Venture / Consortium as well as the associates.
- (b) record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.

#### **9.0 Financial information :**

Applicant(s) (all members of Joint Venture / Consortium separately) should furnish the following financial information:

Annual financial statement for the last five years (in Form "A").

Similar details are also required to be furnished in case of subcontractors/associates proposed to be deployed.

#### **10.0 Experience in works highlighting experience in similar works :**

10.1 Applicant (all members separately in case of Joint Venture / Consortium) should furnish the following:

- (a) List of all works of similar class successfully completed during the last seven years (in Form "B") ending January 31, 2007.
- (b) List of the projects under execution or awarded (in Form "C").

Similar details are also required to be furnished in case of subcontractors/associates proposed to be deployed.

10.2 Particulars of completed works and performance of the applicant / associates duly authenticated / certified by an officer not below the rank of Executive Engineer or equivalent should be furnished separately for each work completed or in progress (in Form "D"). For associates, the information shall substantiate the details given in Forms 'G-1' / 'G-2' / 'G-3'.

#### **11.0 Organization Information :**

Applicant / associates are required to submit the following information in respect of his organization (in Forms "E" & "E-1").

- (a) Name & Postal Address, including Telephone & Telex Number etc.
- (b) Copies of original documents defining the legal status, place of Registration and principal places of business.

- (c) Names & Title of Directors and Officers to be connected with the work, with designation of individuals authorised to act for the organisation.
- (d) Information on any litigation in which the applicant was involved during the last five years, including any current litigation.
- (e) Authorisation for Employer to seek verification of data submitted.
- (f) Number of Technical & Administrative Employees in parent company, subsidiary company and how these would be involved in this work (in Form "E-I").

**12.0 Construction Plant & Equipment:**

Applicant / subcontractor /associates should furnish the list of owned construction plant and equipments (in Form "F"). Details of any other plant & equipment required for the work (to be arranged by the contractor) may also be indicated as also the source of supply.

**13.0 Letter of Transmittal:**

The applicant should submit the letter of transmittal attached with pre-qualification document.

**14.0 Joint Venture / Consortium / Associates :**

The applicant shall furnish the details as per form 'G'. Para 7.5 under section-II may be referred.

**15.0 Tender Submission:**

After evaluation of pre-qualification applications, a list of qualified agencies will be prepared. Thereafter, pre- qualified agencies only would be invited to submit tenders for the work.

**16.0 Award Criteria:**

- 16.1 The employer reserves the right, without being liable for any damages or obligation to inform the applicant, to :
  - (a) amend the scope and value of contract to the applicant.
  - (b) reject any or all of the applications without assigning any reason.
- 16.2 Any effort on the part of the applicant / subcontractor / associates or his agent to exercise influence or to pressurise the employer would result in rejection of his application. Canvassing of any kind is prohibited.

**SECTION III  
PREQUALIFICATION INFORMATION  
LETTER OF TRANSMITTAL**

From:.....

To

**Executive Engineer  
Commonwealth Games Project Division-II  
CPWD, J.N. Stadium, Lodhi Road  
New Delhi-110003.**

**Subject : Submission of pre-qualification application for the work of “Construction of New Fixed Tensile Membrane Roof over seating area”**

Sir,

Having examined the details given in pre-qualification press Notice and pre-qualification document for the above work, I/we hereby submit the pre-qualification document and other relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed forms “A” to “G” and accompanying statement is true and correct.
- 2(a) I/We have furnished all information and details necessary for pre-qualification and have no further pertinent information to supply.
- 2(b) I/We have furnished all information and details necessary for pre-qualification of associates whom we wish to engage for this work. We have no further pertinent information to supply.
3. I/We enclose the requisite certified solvency certificate and authorise the Executive Engineer, Commonwealth Games Project Division-II, CPWD, to approach the Bank(s) issuing the solvency certificate(s) to confirm the correctness thereof. I/We also authorise Executive Engineer, Commonwealth Games Project Division-II, CPWD to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I/We submit the following certificates in support of our suitability, technical know how and capability for having successfully completed the following works which satisfies the eligibility criteria.

Enclosures:- Form A to G  
Seal of applicant  
Date of submission

**Signature (s) of Applicant (s)**

**FORM 'A'**  
**FINANCIAL INFORMATION**

(To be furnished for each member of Joint Venture / Consortium / Associate separately)

- I. Financial Analysis - Details to be furnished for the last five years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

<b>Years</b>				
2001-2002	2002-2003	2003-2004	2004-2005	2005-2006

- i. Gross Annual turn over on construction works.
- ii. Profit / Loss

- II. Financial arrangements for carrying out the proposed work.

- III The following certificates are enclosed:

- a) Copy of Income Tax return (Assessment year 2006-07) duly certified by Chartered Accountant.
- b) Solvency Certificate from Bankers of Applicant.
- c) Copy of Annual Turn over for last 5 years certified by Chartered Accountant.

Signature of Applicant(s)

**Note:**

- 1. Balance Sheet / Audit report is not required to be submitted.
- 2. Similar details are required to be submitted for associates. In case of associates, these will be signed by the associate concerned and countersigned by the lead contractor.

**FORM 'B'**

**DETAILS OF WORKS OF SIMILAR TYPE COMPLETED DURING THE LAST SEVEN YEARS ENDING March 31, 2007  
(For Joint Venture / Consortium / Associates)**

S. No.	Name of work/ Project and location	Owner or sponsoring organisation	Cost of work in INR Crore	Date of commencement as per contract	Stipulated date of completion	Actual Date of completion	Litigation/ Arbitration pending / in progress with details	Name and address/ Telephone number of officer to whom reference may be made	Type of work & Quantity	Remarks
1	2	3	4	5	6	7	8	9	10	11

\*Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of Applicant(s)

**Note :**

1. In case of joint venture / consortium, the information is to be submitted separately for every member of Joint Venture / Consortium. In case of associate, the information is to be submitted separately for every associate.
2. Only those works, which satisfies the eligibility criteria, needs to be mentioned.
3. The relevant technical details like height of structure, capacity of stadium / sports arena (for Sports lighting / PA system), area of roof membrane, quantity and value of structural steel / cable work, etc. must be shown in column No. 10.

**FORM 'C'**

**PROJECTS UNDER EXECUTION OR AWARDED  
(For Joint Venture / Consortium / Associates)**

S. No.	Name of work/ Project and location	Owner or sponsoring organisation	Cost of work in INR Crore	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/ Arbitration pending in progress with details	Name and address/ telephone number of officer to whom reference may be made	Type of work and quantity	Remarks
1	2	3	4	5	6	7	8	9	10	11

\*Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of Applicant(s)

**Note :**

1. In case of joint venture / consortium / associates, the information is to be submitted separately for every member of Joint Venture / Consortium.
2. Only those works, which satisfies the eligibility criteria, needs to be mentioned.
3. The relevant technical details like height of structure, capacity of stadium / sports arena (for Sports lighting / PA system), area of roof membrane, quantity and value of structural steel / cable work, etc. must be shown in column No. 10.

**FORM 'D'**

**PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM "B"**

1. Name of work / Project & Location

2. Agreement No.

3. Estimated Cost

4. Tendered Cost

5. Date of start

6. Date of completion

(i) Stipulated date of completion

(ii) Actual date of completion

7. Amount of compensation levied for delayed completion, if any.

8. Amount of reduced rate items, if any.

9. Performance Report

(1) Quality of work

Very Good / Good / Fair / Poor

(2) Financial soundness

Very Good / Good / Fair / Poor

(3) Technical Proficiency

Very Good / Good / Fair / Poor

(4) Resourcefulness

Very Good / Good / Fair / Poor

(5) General behavior

Very Good / Good / Fair / Poor

Dated:

(Name of the firm & Signature of  
the Authorised Person & his name)  
(Executive Engineer or equivalent)

**Note :**

Information given above may be verified by the department.

**FORM 'E'**  
**STRUCTURE & ORGANISATION**  
**(For Joint Venture / Consortium)**

1. Name & Address of the applicant
2. Telephone No./ Telex No. / Fax No./Mobile No.
3. Legal status of the applicant (attach copies of original document defining the legal status).
  - a) An Individual
  - b) A proprietary firm
  - c) A firm in partnership/ Joint Venture/ consortium
  - d) A limited company or corporation
4. Particulars of registration with various Government bodies (attach attested photocopy).

**Organisation / Place of registration**

**Registration No.**

- 1.
- 2.
- 3.
5. Names and Titles of Directors & officers with designation to be concerned with this work.
6. Designation of individuals authorised to act for the organization.
7. Was the applicant or any member of Joint Venture/ consortium ever required to suspend construction for a period of more than six months continuously after you commenced the construction? If so, give the name of the project and reasons of suspension of work.
8. Has the applicant, or any constituent partner in case of partnership firm / Joint Venture/ consortium, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.
9. Has the applicant, or any constituent partner in case of partnership firm / Joint Venture/ consortium, ever been debarred/disqualified / black listed for tendering in any organization at any time? If so, give details.
10. Has the applicant, or any constituent partner in case of partnership firm / Joint Venture/ consortium, ever been convicted by a court of law? If so, give details.
11. In which field of Electrical Engineering works / Civil Engineering construction, the applicant or individual member in case of Joint Venture / Consortium has specialization and interest?
12. Strength and capability of planning and design office.
13. Any other information considered necessary but not included above.

Signature of Applicant(s)

**FORM 'E-1'**

**DETAILS OF PRINCIPAL TECHNICAL AND ADMINISTRATIVE PERSONNEL TO BE EMPLOYED FOR THE WORK  
(For Joint Venture / Consortium / Associates)**

S. No.	Designation	Total Number	Number available for this work	Name	Qualification	Professional experience and details of work carried out	How they would be involved in this work	Remarks
1	2	3	4	5	6	7	8	9

Signature of Applicant(s)

**FORM 'E-2'**  
**DETAILS OF SPORTS LIGHTING / PA SYSTEM / CABLE / MEMBRANE PROJECTS SUCCESSFULLY DESIGNED / UNDER DESIGN**

S. No.	Name of work/ Project and location	Owner or sponsoring organisation	Cost of work in INR Crore	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Whether software available in house. If yes name of the software available.	Litigation/ Arbitration pending in progress with details	Name and address/ telephone number of officer to whom reference may be made	Type of work and quantity	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

Signature of Applicant(s)

Form 'F'

DETAILS OF CONSTRUCTION PLANT AND EQUIPMENTS LIKELY TO BE USED  
IN CARRYING OUT THE WORK

S. No.	Name of Equipment	Nos.	Capacity or Type	Age	Condition	Ownership status			Current Location	Remarks
						Presently owned	Leased	To be purchased		
1	2	3	4	5	6	7	8	9	10	11
1.0	<b>Mandatory</b> 1. Submerged Arc Automatic Welding Machine.									
2.0	<b>Earth moving equipment</b> 1. Excavators and loaders									
3.0	<b>Equipment for hoisting &amp; lifting</b> 1. Tower crane 2. Steel Derricks (75 t) 3. Mobile Cranes (i) TATA 955 or equivalent (ii) TATA 320 or equivalent 4. Hydraulic Crane									
4.0	<b>Equipment for concrete work</b> 1. Automatic Concrete batching plant of minimum capacity of 30 cu.m. per hour 2. Concrete pump. 3. Concrete transit mixer (diesel) 4. Concrete mixer (electrical) 5. Power driven rotary rig for piling (1000 mm & above)									
5.0	<b>Equipment for building work</b> 1. Bar bending machine 2. Bar cutting machine 3. Wood thickness planer 4. Drilling machine 5. Circular saw machine 6. Welding generators 7. Welding transformers 8. Steel shuttering (Welded plates only) 9. Steel scaffolding									
6.0	<b>Equipment for transportation</b> 1. Tippers 2. Trucks 3. Transit mixers									
7.0	<b>Power equipment</b> 1. Diesel generators (min. 62.5 KVA capacity)									

<p><b>8.0</b></p>	<p><b>Fabrication &amp; Workshop facilities</b></p> <ol style="list-style-type: none"> <li>1. Automatic SAW – 1200 A with track and trolley</li> <li>2. Manual Arc Welding Rectifiers – 400 A DC</li> <li>3. Co 2 welding machine</li> <li>4. Plasma Cutting Machine</li> <li>5. Shaping Machine – 24 inch</li> <li>6. Lathe – Chuck Size 2.4 Mtr. With multi tooling facility.</li> <li>7. Lathe – Chuck Size 500mm and above.</li> <li>8. Rolling machine – upto 32mm</li> <li>9. Hydraulic Press 500MT</li> <li>10. Drilling machine heavy duty</li> <li>11. Magnetic Drill machine</li> <li>12. Ultrasonic Testing Machine with graph facility</li> <li>13. MPT Machine</li> <li>14. Inhouse facility for radiography</li> </ol>													
<p><b>8.1</b></p>	<p><b>Storage facility</b></p> <ol style="list-style-type: none"> <li>1. Permanent covered shed of area 2500 sqm.</li> <li>2. Covered shed area should have EOT cranes of minimum 10 ton capacity.</li> </ol>													
<p><b>9.0</b></p>	<p><b>Equipments for Prestressing</b></p> <ol style="list-style-type: none"> <li>1. Multistrand jacks</li> <li>2. Mono jack</li> </ol>													

Signature of Applicant (s)

**Note:** 1. This may also include details of plants and equipments of associate(s).

**FORM 'G'**  
**BRIEF DESCRIPTION OF JOINT VENTURE FIRM**

- A). Name of Joint Venture Firm
- B). Year of Registration
- C). Has there been previous collaborations between constituent members. If yes, please give details.
- D). Name of lead member / contractor
- E). Share of each constituent member in contract value.
  - 1.
  - 2.

F). Division of work between constituent members

S.No.	Name of Member	Work responsibility
1		
2		

- G) ASSOCIATES :
  - (i) Name
  - (ii) Year of Registration
  - (iii) Annual Turnover
  - (iv) Area of participation

Signature of Applicant (s)

## FORM 'G-1'

### DESCRIPTION AND DETAILS OF MEMBRANE ROOF / CABLE ASSOCIATE

1. Name of the firm:
2. Year & Place of registration (attach document):
3. Financial Information of the firm: (Details to be submitted as per Form "A"):
4. Organizational Structure: (Details to be submitted as per Form "E")
5. List of works of Roofing / Cable work completed during the last 5 years: (Details to be submitted as per the Form "B" and the performance report from the client to be submitted for each of the work as per Form " D")

**Note:**

- a. For Roofing Associate, works with membrane area more than 25000m<sup>2</sup> only need be listed.
  - b. For Cable Associate, work with quantity of fully locked cables of 150 tonnes or more only be listed.
  - c. The responsibility of the firm in the overall work be clearly indicated.
6. List of works of Roofing / Cable work under execution or awarded. (Details to be submitted as per Form "C")
  7. Whether the firm has collaboration with reputed manufacturer of membranes / Fully locked Cable. Please enclosed relevant documents, catalogues, technical specification etc. of the product.
  8. Whether the firm has dedicated in house design team for which they will have to furnish the list of designers and the Roofing / Cable projects successfully designed by them.
    - a. List of Technical persons employed by the firm : (Details to be submitted as per Form "E1"):
    - b. List of Roofing / Cable projects successfully designed: (Details to be submitted as per Form "E2"):

**Note :** In case in house design facility is not available, the arrangement for design / engineering of concerned work should clearly be indicated along with consent letter from such design firms with their details as per para 8 (a) and (b) above.

Signature of Associate(s)

Signature of Applicant(s)

## FORM 'G-2'

### DESCRIPTION AND DETAILS OF SPORTS LIGHTING ASSOCIATE

1. Name of the firm:
2. Year & Place of registration (attach document):
3. Financial Information of the firm: (Details to be submitted as per Form "A"):
4. Organizational Structure: (Details to be submitted as per Form "E")
5. List of works of sports lighting completed during the last 5 years: (Details to be submitted as per Form "B" and the performance report from the client to be submitted for each of the work as per Form " D")

**Note:**

- a. Works of sports lighting work in a stadium / sports arena of a capacity not less than 25,000 spectators in the last five years only need be listed.
  - b. The responsibility of the firm in the overall work be clearly indicated.
6. List of works of sports lighting under execution or awarded. (Details to be submitted as per Form "C")
  7. Whether the firm is an internationally reputed manufacturer of Sports lighting equipments manufacturing sports lighting fittings, control gears and lamps (including 2 KW fittings) under the single brand? Please enclose relevant documents, catalogues, technical specifications of the product.
  8. Whether the firm has dedicated in house lighting design team for which they will have to furnish the list of designers and the sports lighting projects successfully designed by them.
    - a. List of Technical persons employed by the firm : ( Details to be submitted as per Form "E1"):
    - b. List of sports lighting projects successfully designed: (Details to be submitted as per Form "E2"):
  9. Details of the back up service facility available in India and preferably in Delhi, NCR.
    - i. Name and Address of the facility provider.
    - ii. Available in India since when?
    - iii. Details of service employees. (Give names, numbers and qualification and period).

Signature of Associate(s)

Signature of Applicant(s)

**FORM 'G-3'**

**DESCRIPTION AND DETAILS OF PUBLIC ADDRESS SYSTEM ASSOCIATE**

1. Name of the firm:
2. Year & Place of registration (attach document):
3. Financial Information of the firm: (Details to be submitted as per Form "A"):
4. Organizational Structure: (Details to be submitted as per Form "E")
5. List of works of PA system completed during the last 5 years: (Details to be submitted as per Form "B" and the performance report from the client to be submitted for each of the work as per Form " D")

**Note:**

- i. Works of PA system, in a stadium /sports arena/auditorium (capacity not less than 25,000 spectators for outdoors or not less than 5000 spectators for indoor stadium/sports arena/auditorium) in the last five years. only need be listed.
- ii. The responsibility of the firm in the overall work be clearly indicated.
6. List of works of PA system under execution or awarded. (Details to be submitted as per Form "C")
7. Whether the firm is an internationally reputed manufacturer of the PA system products (Speakers, mixers, amplifiers, etc.). Please enclose relevant documents, catalogues, technical specifications of the product.
8. Whether the firm has dedicated in house PA system design team for which they will have to furnish the list of designers and the sports lighting projects successfully designed by them.
  - a. List of Technical persons employed by the firm: (Details to be submitted as per Form "E1"):
  - b. List of PA System projects successfully designed: (Details to be submitted as per Form "E2"):
9. Details of the back up service facility available in India and preferably in Delhi, NCR.
  - i. Name and Address of the facility provider.
  - ii. Available in India since when?
  - iii. Details of service employees. (Give names, numbers and qualification and period).

Signature of Associate(s)

Signature of Applicant(s)

# Contact Details

<b>Contact Persons</b>	<b>Executive Engineer :</b> Executive Engineer, CWGD-II, CPWD, Gate No.32, Jawaharlal Nehru Stadium, Lodhi Road, New Delhi – 110 003 INDIA Tel : +91-11-24364270
	<b>Executive Engineer (Electrical):</b> Executive Engineer (E), CWGED-I, CPWD, Gate No.32, Jawaharlal Nehru Stadium, Lodhi Road, New Delhi – 110 003 INDIA Tel : +91-11-2436
	<b>Superintending Engineer :</b> Superintending Engineer, CGC-I, CPWD, Gate No.31, Jawaharlal Nehru Stadium, Lodhi Road, New Delhi – 110 003 INDIA Tel : +91-11-24364269
	<b>Superintending Engineer (Electrical) :</b> Superintending Engineer (E), CGEC, CPWD, Gate No.31, Jawaharlal Nehru Stadium, Lodhi Road, New Delhi – 110 003 INDIA Tel : +91-11-24363680
	<b>Project Manager :</b> Commonwealth Games Project, CPWD, MDC National Stadium, Mathura Road, New Delhi – 110 003. INDIA Tel : +91-11-23073971