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# Construction Development Board

“Construction Quality: Solutions through Professionalization and Technology”



“No matter what task you are assigned with or whatever responsibilities that you need to shoulder, give it your best! No matter how trivial or inessential that task seems, as long as it has been assigned to you, you need to carry it out with due diligence and give it a 100%”

*His Majesty the King*

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- His Majesty the King

[His Majesty speech.MP4](#)



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# Presentation on e-tool system





## Outline of Presentation:

1. Introduction to Point Based System of Evaluation e-tool
2. Evaluation Process
3. Critical Issues



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## **Introduction to the Point Based System of Evaluation:**

- Launched on 1<sup>st</sup> May 2011.
- It is developed based on New Point Based System.
- Is for selecting and awarding the work to the contractor most suited to perform a given construction work.
- The system has been designed to evaluate a contractor on a combination of technical and financial parameters.



## Introduction to the Point Based System of Evaluation:

- **Financial parameter** - comprises financial bid quoted by the contractor and price preference parameters;
- **Technical parameters** - comprise of several measures like manpower, equipment, financial capacity, organizational status of the contractor company and so on;
- The contractor qualifying on the technical score and getting the highest price preference-financial score is awarded the contract.





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## About e-Zotin:



**e-Zotin** is composed of online Services rendered by CDB Secretariat. It has the following applications incorporated with it:

1. **Contractor Registration and Performance System** - for managing contractors, consultants, architects and specialized trade.
2. **eTool** - Online evaluation tool for procurement of civil works carried out by government procuring agencies.
3. **CiNET(Construction Industry Information System)** - Interface for corporates, NGOs and donor funded projects to update the work information.
4. **Registration Services** - Online registration services provided by the Secretariat for Contractors, Consultants, Architects and Specialized Trades.



## Class & Allowable Range of Contracts:

DETAILS	LARGE CLASS	MEDIUM CLASS	SMALL CLASS
Eligible bid amount (million Nu.)	> 15.0	> 5.0 - 15.0	≤ 5.0
Maximum number of contracts at a time	5	4	2

**Note:** The above values are based on the agencies estimate and not the quoted value.



## **Introduction to the Point Based System of Evaluation:**

The point based system is a two stage system:

- a) 1st Stage: Bidder Qualification
- b) 2nd Stage: Bid Evaluation





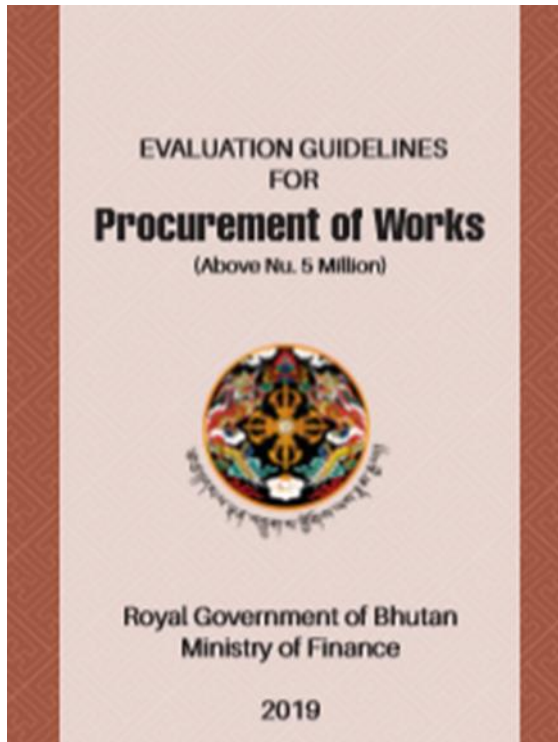
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## Introduction to the Point Based System of Evaluation:



### 1st Stage: Bidder Qualification

- Capability ..... (70 points)
- Capacity ..... (30 points)

**A bidder needs to obtain a score of at least :-**

70/100

### Parameters:

#### 1. Capability:

- a) Similar work experience:.....(0-10 points)
- b) Access to adequate equipment:.....(0-25 points)
- c) Availability of skilled manpower:.....(0-25 points)
- d) Average performance score from previous work:.....(0-10 points)

#### 2. Capacity:

- a) Bid Capacity.....(0-25 points)
- b) Credit line available (unused).....(0-5 points)



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## Introduction to the Point Based System of Evaluation:

Sl. No	Parameters	Level of Achievement	Score
1	<b>BIDDER QUALIFICATION</b>		
1.1	<b>CAPABILITY</b>		
a)	Similar Work Experience(0-10)	≥ 175% of current project size	10
	Aggregate size of similar contracts (max 3) in the last 5 calendar yrs  OR	125 – 175% of current project size	8
		75 – 125% of current project size	4
		< 75% of current project size	0
	Size of the largest similar contract executed in the last 5 calendar yrs	≥ 100% of current project size	10
		70 – 100% of current project size	8
		50 – 70% of current project size	4
		< 50% of current project size	0



## Introduction to the Point Based System of Evaluation:

### (a) Similar work experience (0-10 points):- [Documents Required]

1. Bidders shall produce and update the information on similar work experience with following documents in the e-tool/CiNET in order to be evaluated and awarded points on this parameter:
2. Completion certificate of the **single largest** work of similar kind executed in the last 5 calendar years **OR**
3. completion certificates of **no more than 3** works of similar kind executed in the last 5 calendar years (works whose completion date is within the last 5 calendar years, including the current one)

**Evaluation score is auto-generated from the e-tool/CiNET based on the similar work experience information updated.**





## Introduction to the Point Based System of Evaluation:

Sl. No	Parameters	Level of Achievement	Score
b)	Access to equipment (0-25)	Total score for equipments out of a score of 100 to be scaled down to 25	

### Documents Required:-

1. Copy of the registration certificate of each equipment committed;
2. Copy of Insurance policy for each equipment where applicable;
3. In case of hiring, copy of the lease agreement in addition to 1 & 2 above;
4. In case of equipments that do not require registration with RSTA, copy of cash memos stamped by RRCO if newly imported or copy of sale deeds or verification letter issued by a Government Engineer.



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## Introduction to the Point Based System of Evaluation:

### b) Access to adequate equipment (0-25 points) –

#### [Key points to remember]

1. The hiring agreement produced by the contractor should be specific to the **current project** and not a general.
2. E-tool focal person/user to provide the **registration numbers [BP-1-A0000]** of each equipment committed by the contractor.
3. E-tool will automatically generate **an alarm** if the equipment is already engaged in some other projects.



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## Introduction to the Point Based System of Evaluation:

Sl. No	Parameters	Level of Achievement	Score
c)	Availability of skilled manpower (0-25)	Total score for skilled manpower out of a score of 100 to be scaled down to 25	

### Documents Required:

1. Original signed CVs of technical manpower committed.
2. Copies of Citizenship ID Cards or work permit/ Passport/ Election/Voter ID cards (for foreign workers) of all manpower committed.
3. Copies of contract agreements with all personnel if they have been hired on contract by the contractor.
4. Copies of Provident Fund Account Documents for all regular personnel or payrolls or Copies of monthly remittance schedule of Health Contribution and Tax Deducted at Source for all regular personnel committed for this project.





## **Introduction to the Point Based System of Evaluation:**

### **c) Availability of skilled manpower (0-25)**

#### **[Key points to remember]**

1. The contract agreement produced by the contractor for the committed manpower should be specific to the current project and not general.
2. The user to provide the CID numbers of each personnel committed by the contractor.
3. E-tool will automatically generate an alarm if the same person is already engaged in some other projects.



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## Introduction to the Point Based System of Evaluation:

Sl. No	Parameters	Level of Achievement	Score
d)	Average performance score from previous work (past 5 calendar years)	100%	10
		1 mark lesser for every 5% point decrease in score rounded off to lower 5%	0
		< 55%	

### Documents Required:

Bidders shall produce and update the information on performance from every project with following documents in the e-tool/CiNET in order to be evaluated and awarded points on this parameter:

- Performance Score from previous works (past 5 calendar years).



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## Introduction to the Point Based System of Evaluation:

Sl. No	Parameters	Level of Achievement	Score
1.2	<b>CAPACITY</b>		
a)	Bid Capacity (0-25)	Bid Capacity $\geq$ quoted bid	25
	$*BC = 2 * A * N - B$	Bid Capacity is between 80 – 100% quoted bid	20
		Bid Capacity is between 60 – 80% quoted bid	15
		Bid Capacity is between 40 – 60% quoted bid	10
		Bid Capacity $<$ 40% quoted bid	0

Where:-

A = Average turnover of the contractor over the last 3 calendar years

N = Estimated duration of the project to be tendered

B = Portion of other ongoing works to be completed in the period that overlaps with the current project's duration (that is, N)





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## **Introduction to the Point Based System of Evaluation:**

### **Documents Required:**

Bidders shall produce and update the information on bid capacity with following documents in the e-tool/CiNET in order to be evaluated and awarded points on this parameter:

1. Completion certificates for all works having their completion dates in the last 3 calendar years (including the current year)
2. Award letters for all works having their start dates in the last 3 calendar years (including the current year)



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## Introduction to the Point Based System of Evaluation:

Sl. No	Parameters	Level of Achievement	Score
1.2	<b>CAPACITY</b>		
b)	Credit line available (unused)(0-5)	≥ 100% of estimated 3 month project cash flow	5
		80 – 100% of estimated 3 month project cash flow	4
		60 – 80% of estimated 3 month project cash flow	2
		<60% of estimated 3 month project cash flow	0

### Documents Required:

Contractors should be required to furnish the following documents in order to be evaluated and awarded points on this parameter:

1. Letter of credit(in the format specified in bidding document) from the financial institutions in Bhutan certifying the availability of credit for that specific project



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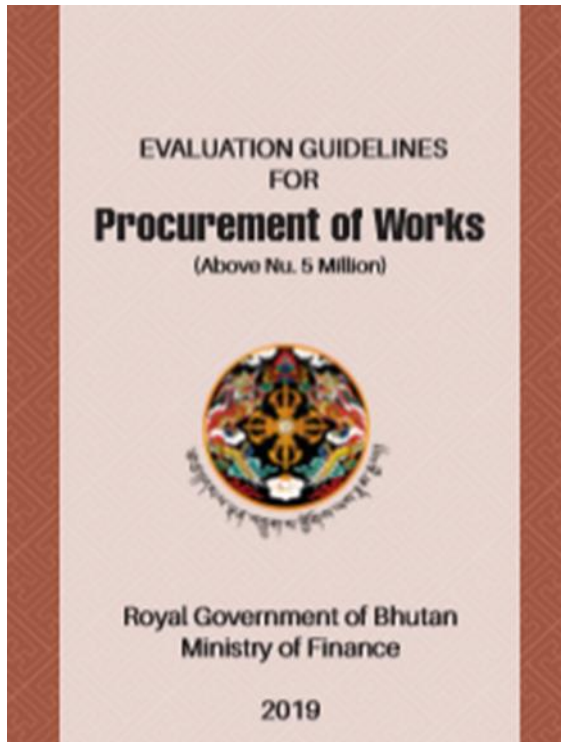
### 2<sup>nd</sup> Stage: Bid Evaluation

- Status (incorporated, JV, proprietorship) - 40points
- Employment of Bhutanese - 60points

The overall price preference - financial score is obtained by using the following formula for any qualified contractor (x):-

$$90 \times \left( \frac{\text{Lowest quoted bid among qualifying bids}}{\text{Financial bid quoted by x}} \right) + 10\% \text{ of the preference score of x}$$

The contractor getting the highest overall price preference-financial score is awarded the work.







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## Introduction to the Point Based System of Evaluation:

Sl. No	Parameters	Level of Achievement	Score
2	<b>BID EVALUATION</b>		
a)	Status (incorporated, JV, proprietorship)	Incorporated company bidding alone	40
		Incorporated company as the lead partner (>50% stake) in a bid by a joint venture	20
		Incorporated company as a non-lead partner (<50% stake) in a bid by a joint venture	10
		Any other (proprietorship, partnership etc.)	0

### Documents Required

1. Copy of the certificate of incorporation along with updated CDB registration certificate in case an incorporated company bidding alone.
2. Joint-venture agreement between the contractor involved and copy of the certificate of incorporation along with updated CDB registration certificate for the incorporated partner in case two or more contractors are bidding together in a joint venture.



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## Introduction to the Point Based System of Evaluation:

Sl. No	Parameters	Level of Achievement	Score
b)	Employment of Bhutanese	≥ 100% project workforce to be Bhutanese	60
		80 – 100% project workforce to be Bhutanese	40
		60-80% project workforce to be Bhutanese	20
		≤ 60% project workforce to be Bhutanese	0

### Documents Required:

The contractor shall provide following details:

1. Provide a list of proposed Bhutanese committed for the Project:



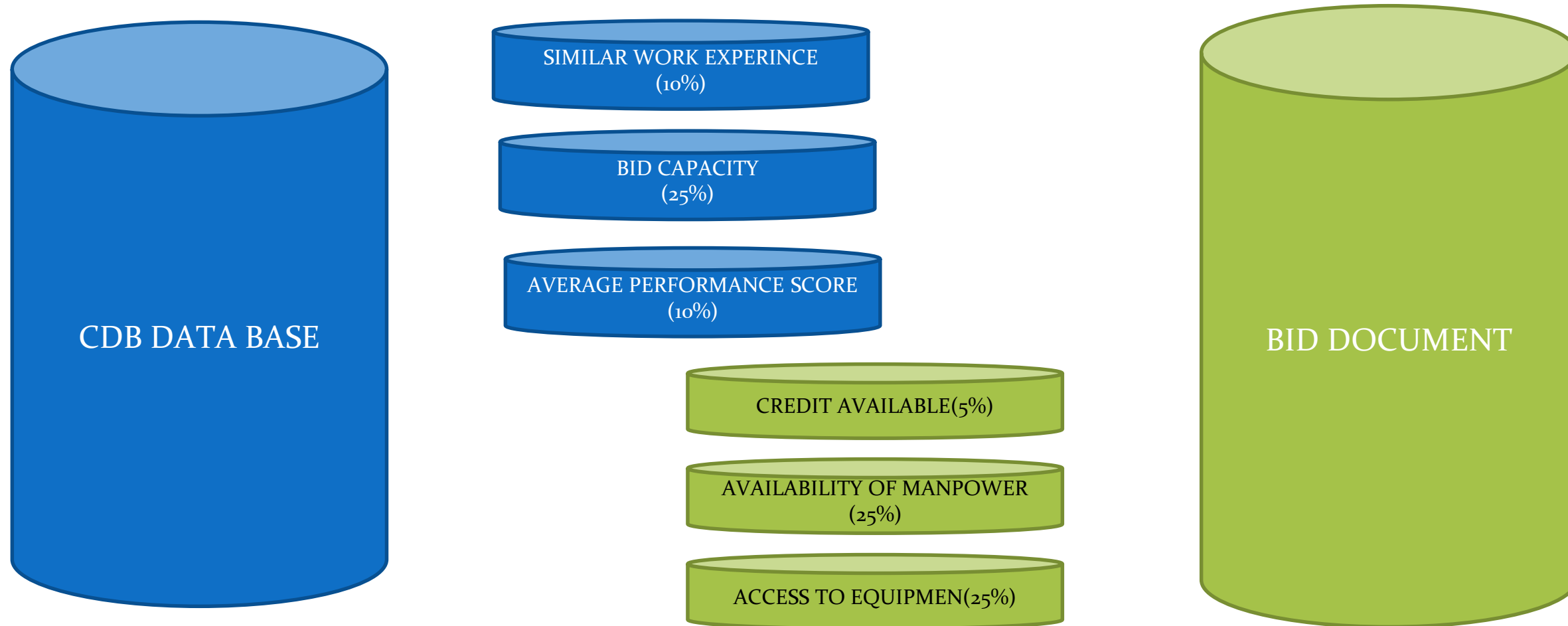
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## Evaluation Process:







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## Critical Issues :

1. Identifying dedicated e-tool focal person.
2. Timely updating Information on e-tool (award & completion).
  - *After work is awarded.*
  - *After project is completed.*
3. Checking work in hand status at the time of awarding.
4. Careless data entry.
  - *Entering inappropriate format of registration number of equipments, CID No./work permit no.*
  - *Double entry of same key personal and giving undue points to the bidder.*
  - *Ignorance of HR/Equipment engagement.*



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## Tracing tool:

1. Developed in order to fix accountability of e-tool users and trace his/her every activity on e-tool.
2. Tracing module captures what information was fed on the e-tool.

Following are the details of information captured:

- *HR/Equipment Added or Deleted for a particular work id.*
- *If check operation was performed for HR/Equipment*
- *When was the work awarded/completed and processes performed.*



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**Thank You!!!**