

Point Based Evaluation System

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Construction Development Board
e-Tool Training 2019(CST)

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Sr.ICT Officer



Presentation outline

- ✓ Objectives of New Point-based System
- ✓ Evaluation Process/Stages of New Point based system
- ✓ Anticipated Amendments



OBJECTIVES



OBJECTIVITY

- ✓ Select and award the work to the contractor most suited to perform a given construction work.
- ✓ Objective levels of achievement & scoring specified for all parameters
- ✓ Project specific requirements clearly defined



FLEXIBILITY

- ✓ Adequate flexibility to allow young & promising contractors to qualify
- ✓ Weightage given to parameters is well in line their importance in project execution



INCENTIVES

- ✓ Suitable incentives given for VTI Graduates/local skilled employment ,commitment for internships of VTI Graduates,Incorporation etc.

Two stage evaluation process

1st Stage Bidder Qualification Criteria

Qualification Parameters
(100%)

CAPABILITY (70%)

1. Similar work
2. Equipments
3. Key Personnel
4. Past Performance

CAPACITY (30%)

1. Bid Capacity
2. Credit Line

≥ 65

2nd Stage Combination of financial and Preference parameters

Price Preference Parameters (10%)

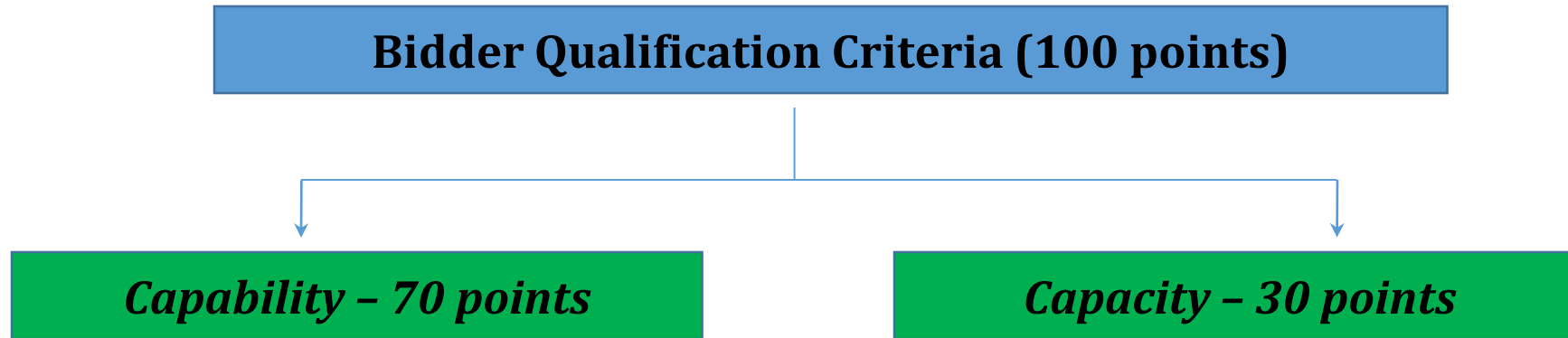
1. Status (incorporated, proprietorship, JV etc.)
2. Employment of VTI Graduates/ local skilled Labour
3. Commitment for internships to VTI



Financial Parameters
(90%)



1st Stage :-Bidder Qualification



- ✓ **The above parameter is evaluated at 100 points.**
- ✓ **A minimum cutoff point (65) is set out of 100 points in order to be responsive.**
- ✓ **All bids below the minimum cutoff point are rejected.**
- ✓ **Qualification scores of the bidders (who passed the minimum cutoff point) will not be carried forward.**



Bidder Qualification Criteria (100 points)

A. Capability – 70 points

- | | |
|--|------|
| 1. Similar work experience | - 10 |
| 2. Access to adequate equipment | - 25 |
| 3. Availability of manpower | - 25 |
| 4. Average performance score from previous work* | - 10 |

Total - 70 points

- ✓ **Parameters above tests on the capability to execute the given work.**
- ✓ **Capability is taken to be a function of prior experience, their ability to generate enough resources in form of manpower and equipment, and their performance track-record from previous works.**



A. Capability – 70 points

1 - Similar work experience (last 5 calendar years)- 10 Points

Two options:-

- a. the contractor can either be evaluated on the size of a SINGLE largest similar work that (s)he might have executed in the past .**
- OR**
- b. on the aggregate size of THREE similar works that (s)he might have executed in the past.**



A. Capability – 70 points

Scoring pattern for similar works:-

Parameter	Level of Achievement	Score
Aggregate size of similar contract (max 3) in the last 5 calendar yrs.	<ul style="list-style-type: none">• $\geq 175\%$ of current project size• 125 – 175% of current project size• 75 – 125% of current project size• $< 75\%$ of current project size	<ul style="list-style-type: none">▪ 10▪ 8▪ 4▪ 0
Size of the largest similar contract executed in the last 5 calendar yrs	<ul style="list-style-type: none">• $\geq 100\%$ of current project size• 70 – 100% of current project size• 50 – 70% of current project size• $< 50\%$ of current project size	<ul style="list-style-type: none">▪ 10▪ 8▪ 4▪ 0



Points to Note

- ✓ The similar work experience the firm can be viewed in e-Tool/CiNET.
- ✓ The bidder should have executed some work in that particular category.
- ✓ The firm should ensure that the work is updated through either e-Tool or CiNET by the client agency. No update is entertained by CDB if the work was not declared during the time of award and if the firm requests for update after completion.
- ✓ It directly affects the Bid Capacity of the Bidder.
- ✓ Submit documents as required however Similar Work will be calculated only on works updated on e-Tool or CiNET only.
- ✓ Private works or projects are entertained after following a certain procedure-intimating CDB during award, submitting contract documents. Will be regularly monitored and rated by CDB
- ✓ Ensure that right category of work is updated in the track record, i.e. w1,w2,w3,w4
- ✓ Partially completed works will NOT be considered for award of points under this parameter. (Scoring pattern will remain same)



A. Capability – 70 points

2 – Access to adequate equipments:- 25 points

Allocate points to each equipment based on its importance:-

- | | |
|--------------------------------------|------------------|
| ✓ Equipments of Tier-I importance: | 50 points |
| ✓ Equipments of Tier-II importance: | 30 points |
| ✓ Equipments of Tier-III importance: | 20 points |

Total marks out of 100 to be scaled down to 25

100% marks if the equipment are owned and 75% marks if hired.

Scoring on equipment is fundamentally similar to the way it has been done in the pass/fail system



A. Capability – 70 points

An illustrative list of prescribed equipment could look like the one given below:

Equipment	Maximum marks	Number required
Excavator	50	2
Paver	10	1
Vibrator	10	1
Pneumatic road roller	10	1
Static road roller	5	1
Truck	5	1
Mechanical sprayer	5	1
Air compressor	5	1
Total	100	



Points to Note

- ✓ Total marks out of 100 to be scaled down to 25
- ✓ Contractors will get 100% marks if they own the equipment and 75% marks if they have hired the equipment
- ✓ Scores in proportion to the number of commitment.
- ✓ Allocate the marks equally based on no. of equipment in each tier
- ✓ The equipment you have submitted should not be engaged in other projects
- ✓ Registered equipment are directly verified from RSTA database
- ✓ For non registered equipment submit custom cleared invoice for new equipment.



Documents Required

- ✓ Copy of the registration certificate of each equipment committed where applicable
- ✓ In case of hiring, copy of the lease agreement with the leaser(project-specific)
- ✓ In case of ownership, copy of the insurance policy for each equipment where applicable
- ✓ (it is upto the agency to specify the type & number of equipments based on degree of importance to the project)



A. Capability – 70 points

3– Availability of Manpower :- 25 points

This parameter evaluates contractors on their ability to deploy personnel with suitable qualifications and experience
Allocate points to each of the key project personnel positions based on its importance

The 100 points allocated is as follows:

- | | |
|--|-----------|
| ✓ Personnel position of Tier-I importance: | 50 points |
| ✓ Personnel position of Tier-II importance: | 30 points |
| ✓ Personnel position of Tier-III importance: | 20 points |

Total marks out of 100 to be scaled down to 25



A. Capability – 70 points

An illustrative list of manpower requirements could look like the one given below:

Position	Qualification/Experience	Score
Project Manager	▪ Graduate civil engineer with 10+ years of experience	▪ 50
	▪ Graduate engineer with 5-10 years of experience	▪ 40
	▪ Diploma engineer with 5-10 years of experience	▪ 30
	▪ Any other qualification	▪ 0
Project Engineer	▪ Graduate engineer with 5+ years of experience	▪ 30
	▪ Diploma engineer with 5+ years of experience	▪ 20
	▪ Graduate or diploma engineer with 3+ years of experience	▪ 10
	▪ Any other qualification	▪ 0
Site Supervisor	▪ Diploma engineer with 3+ years of experience	▪ 20
	▪ Personnel with formal training certification from VTI and at least 5 years of experience	▪ 10
	▪ Any other qualification	▪ 0



Documents Required

- **Copies of the CVs** of all manpower committed signed in original
- Copies of Citizen ID Cards OR Passport / Election ID cards (for foreign workers) of all manpower committed
- Copies of contract agreements with all personnel if they have been hired on contract by the contractor
- Copies of Provident Fund Account documents of all personnel if they have been recruited on permanent rolls by the *contractor*
- *(it's upto the agency to specify the qualifications & experience based on the project requirement)*



Points to remember

- One engineer can be engaged in 2 works of the same firm.
- The requirement of HR or equipment will be based on agency.
- Replace and release is permitted provided approved by client agency. Letter should be submitted to CDB
- The contract agreement produced by the contractor should be specific to the current project and not a general one.
- The e-tool requires the user to provide the citizen ID numbers of each personnel committed by the contractor. The system will automatically generate an alarm if the same person is already working on some other project or has been committed by some other contractor as well.



A. Capability – 70 points

4- Average performance score from previous work:-10 points

The 100% performance score is composed of the following parameters:-

- 1. On-time completion - (30%)**
- 2. Quality of execution - (70%)**



A. Capability – 70 points

Following Scoring pattern will be used for past performance :

Parameter	Level of achievement	Score
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%	
	▪ < 50%	▪ 0

***This sums up the scoring of 70 points for capability under the “qualification criteria”.**



B. Capacity – 30 points

This category of parameter tests the contractor on his/her ability to generate adequate financial resources for executing the project.

The parameters covered under this category are:

1. Bid Capacity	- 10
2. Credit line available	- 20
Total	- 30 points



B. Capacity – 30 points

1- Bid Capacity (10 points)

The contractor's capacity to take on more work in addition to what he is already doing

$$\text{Bid Capacity} = 2 * A * N - B$$

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

N= Estimated duration of the project being tendered in years.

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



B. Capacity – 30 points

Bid capacity having calculated, the scoring will be as follows:

Parameter	Level of achievement	Score
Bid Capacity	▪ Bid capacity \geq quoted bid	▪ 10
	▪ Bid capacity is between 80-100% quoted bid	▪ 08
	▪ Bid capacity is between 60-80% quoted bid	▪ 06
	▪ Bid capacity is between 40-60% quoted bid	▪ 04
	▪ Bid capacity is between <40% quoted bid	▪ 00



Points to Remember

Bid Capacity will be zero in following cases :

1. Firm has not executed a single work in the last 3 calendar years.
2. The project being tendered is of very short duration.
3. The number of ongoing project is extremely large.
4. The estimate of the agency is exponentially high.

Note: There is no error in the system. Tested and verified rigorously.



B. Capacity – 30 points

2 – Credit line available – (20 points):-

- ✓ This parameter evaluates the contractor on his/her ability to raise credit from banks and other financial institutions to manage the working capital requirements of the project.
- ✓ The contractor will get a score based on a letter of credit from a bank that gives the amount of credit available to the contractor for the work to be awarded.
- ✓ Level of achievement on this parameter will be judged in terms of months of project cash flow for which the credit is available.



B. Capacity – 30 points

Scoring pattern will be done as follows:

Parameter	Level of achievement	Score
Credit line available	▪ $\geq 100\%$ of estimated 3 month project cash flow	▪ 20
	▪ 80 – 100% of estimated 3 month project cash flow	▪ 16
	▪ 60 – 80% of estimated 3 month project cash flow	▪ 08
	▪ $<60\%$ of estimated 3 month project cash flow	▪ 00

***This sums up the scoring of 100 points under the “qualification criteria”.**

***All the bids who obtain a score of 65 points or more will move to the next stage of evaluation.**



B. Capacity – 30 points

Points to Note:-

- It should be project specific.
- It is 3 months cash flow.
- Keep the figure always more than required to score 100%. Even if you furnish 99.9 % also you will lose 4 points.
- Its purpose is to fund a project at least for at least 3 months if there are delay in release of budget from the funding agency.
- The value of it will increase dramatically and high chances of scoring zero if the project is of very short duration.

Documents required

- Bank certificate in the format provided in the Section IV of the standard bidding documents in order to be evaluated and awarded points



2nd Stage = Bid Evaluation Criteria

combination of Preference and Financial parameters

Price Preference Score (10 %)



Financial Parameters (90%)



1. Status of the bidder
2. Employment of VTI graduates /local skilled people
3. Internship to VTI graduates



Financial bid quoted by a bidder



Points to Note

1. Stage one and stage two is independent of each other.
2. Stage one is only for technical qualification.
3. In stage two all starts from zero again.
4. A minimum of 65 is required in stage one for the bids to be responsive in the second stage.



Price Preference Score (10%)

This category of parameters evaluates the contractor on how well the contractor's organization is set up and functioning and how much is it contributing to the overall betterment of the sector.

The sub-parameters under this category are:

- | | |
|---|--------------|
| 1. Status of the bidder | - 40 |
| 2. Employment of VTI graduates/local skilled people | - 40 |
| 3. Commitment for internships to VTI graduates | - 20 |
| Total | - 100 points |

100 points will be converted to 10 points



1. Status (Status (incorporated, proprietorship, JV etc.)

The scoring on this parameter will be as follows:

Parameter	Level of achievement	Score
Status (incorporated, proprietorship, JV)	■ Incorporated company bidding alone	
	■ Incorporated company as the lead partner (>50% stake) in a bid by a joint venture	■ 40
	■ Incorporated company as a non-lead partner (<50% stake) in a bid by a joint venture	■ 20
	■ Any other (proprietorship, partnership etc.)	■ 10
		■ 00



2. Employment of VTI Graduates

This parameter is designed to give the contractors benefit for employing VTI graduate/local skilled people in construction jobs.

The scoring on this parameter will be as follows:

Parameter	Level of achievement	Score
Employment of VTI/ local skilled people	<ul style="list-style-type: none">▪ $\geq 50\%$ project skilled workforce to be VTI▪ 30 – 50% project skilled workforce to be VTI▪ 15 – 30% project skilled workforce to be VTI▪ $\leq 15\%$ project skilled workforce to be VTI	<ul style="list-style-type: none">▪ 40▪ 30▪ 15▪ 00



3.Commitment for internships to VTI graduates

This parameter is designed to provide incentives to contractors to facilitate the betterment of vocational training for construction in Bhutan

The scoring on this parameter will be as follows:

Parameter	Level of achievement	Score
Commitment for internships to VTI graduates	▪ Internship opportunities for VTI graduates equivalent to $\geq 10\%$ of project workforce	▪ 20
	▪ Internship opportunities for VTI graduates equivalent to 5-10% of project workforce	▪ 10

This sums up the scoring of 100 points under the “Preference Parameter”



Points to Note

1. Just by obtaining the certificate from MoEA wont make the company incorporated. All the equipment should be transferred in the name of company and the firm name should be updated with CDB.
2. Submission commitment letter.
3. Commitment in terms of percentage.
4. Workforce should be determined and committed.



Evaluation for Joint Venture

Parameters are divided into two categories

- One-Weighted aggregate based on the % of stake
- ✓ Similar work experience
- ✓ Performance score from previous work
- ✓ Bid Capacity
- ✓ Credit Line available



Example-similar work experience

➤ For example, say that there is a JV of 3 partners – A, B, C – where A holds a 30% stake, B holds 45% stake and C holds 25% stake. Now say, the single largest similar work done by A, B, C is Nu 50 million, Nu 70 million, and Nu 65 million respectively. Then their weighted aggregate of similar work experience will be

$$= 50 * 30\% + 70 * 45\% + 65 * 25\%$$

$$= \text{Nu } 62.75 \text{ million}$$

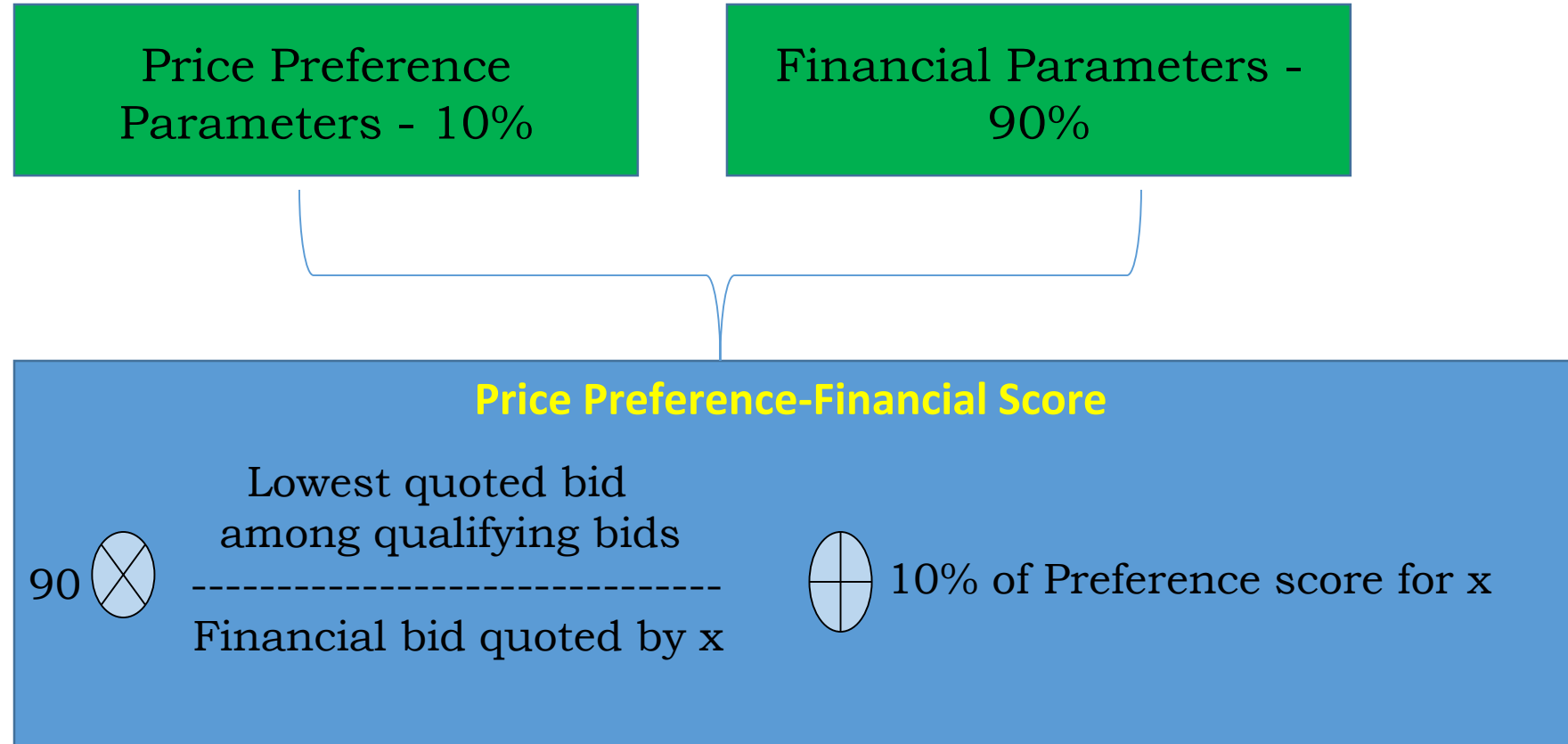


Contd....

- **Category two-No weighted aggregate required**
 - ✓ Access to adequate equipment
 - ✓ Access to manpower
 - ✓ Status (incorporated, JV etc.)
 - ✓ Employment of VTI Graduates/local workforce
 - ✓ Commitment to internships for VTI graduates



AWARD OF WORK



****Work shall be awarded to the contractor obtaining the highest overall price preference-financial score.**



For queries and clarification

1. Bidders seek clarification in written from the client agency.
2. Agency GPPMD, Ministry of Finance(www.egp.gov.bt/336962)
3. CDB will intervene only on technical issues with regard to e-Tool.
4. If not satisfied with evaluation approach Independent Review Body, GPPMD, MoF within the 10 days after issuance of Letter of Intent.



Anticipated amendments in the upcoming FY

1. First Stage Qualifying Score to be 70.
2. Bid Capacity 25
3. Credit Line 5
4. Employment of Bhutanese 6
5. Employment/Internship to VTI - Removed
6. Other parameters remain same.
7. Will be implemented from the next FY.
8. Small work ceiling raised to 5 Million



Thank You



e-Tool

Construction Development Board

Bikash Pradhan

Sr.ICT Officer



Overview

- ✓ Background
- ✓ Evaluation Process
- ✓ Statistics
- ✓ e-Tool Modules
- ✓ Critical issues pertaining to e-Tool, contractor registration, procurement

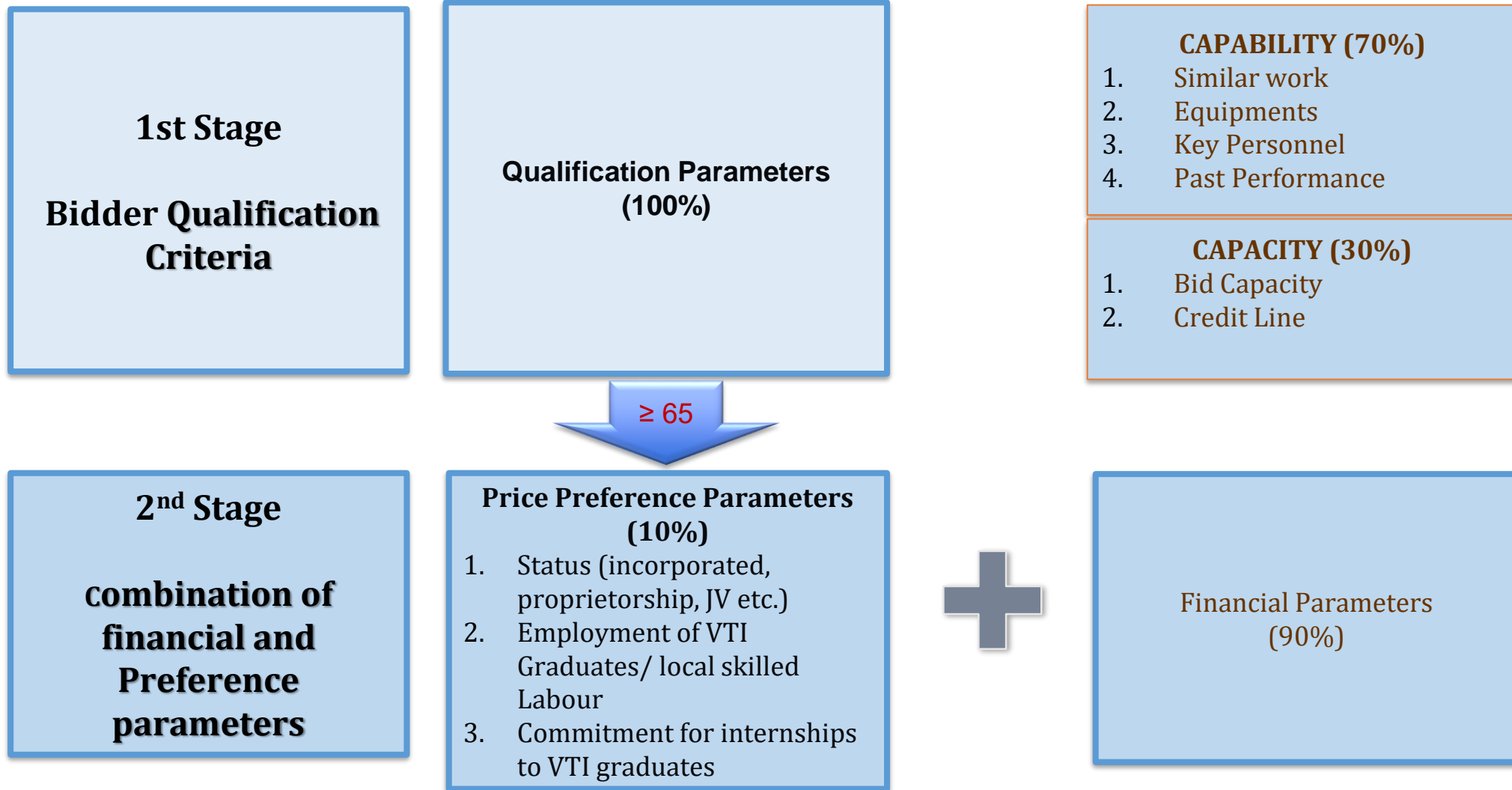


Background

- ✓ e-Tool is a web based online evaluation tool.
- ✓ It is developed based on New Point Based System.
- ✓ Launched on 1st May 2011.
- ✓ Only the evaluation stage/phase is done online.
- ✓ Uniform/standardized/rational evaluation system.
- ✓ To save evaluation time.
- ✓ Centralized Construction Industry Information.
- ✓ Mandated to be adapted for evaluation of all government civil works

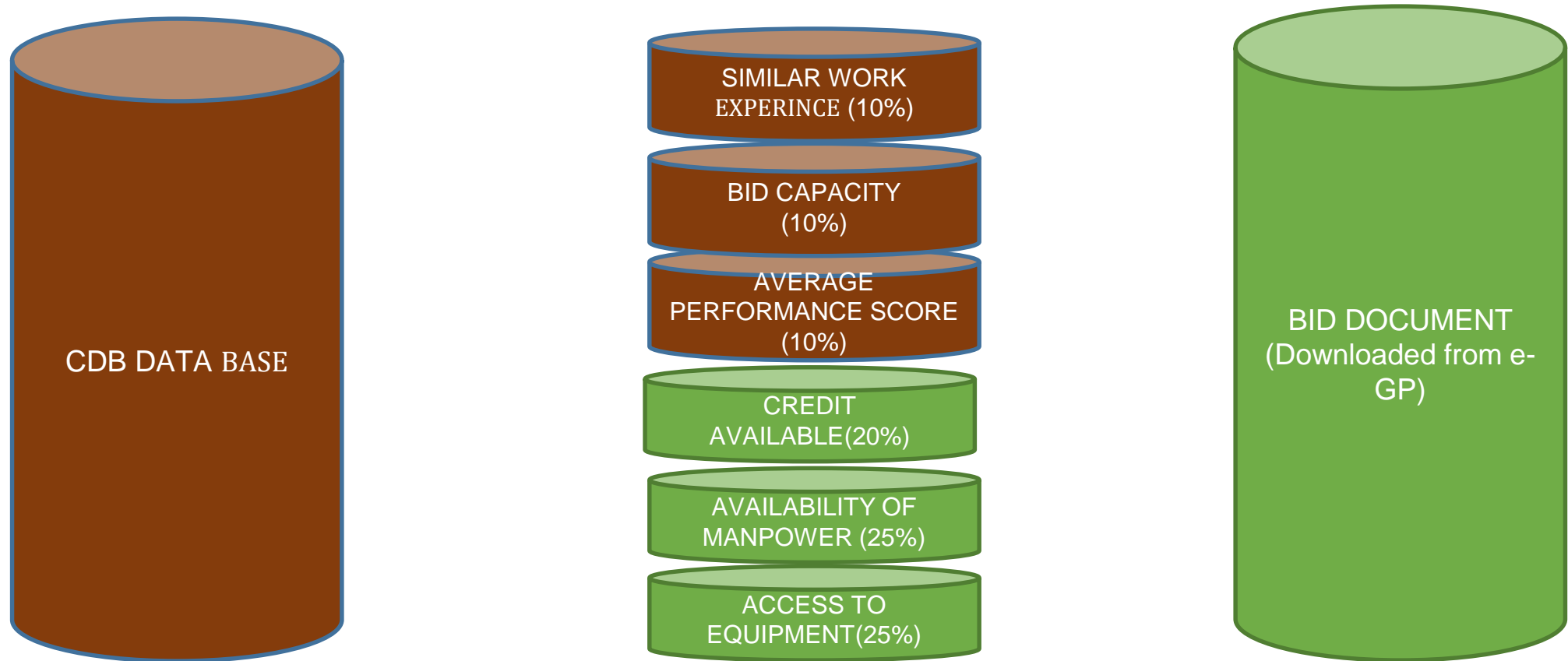


Two stage evaluation process





e-Tool : Evaluation Process



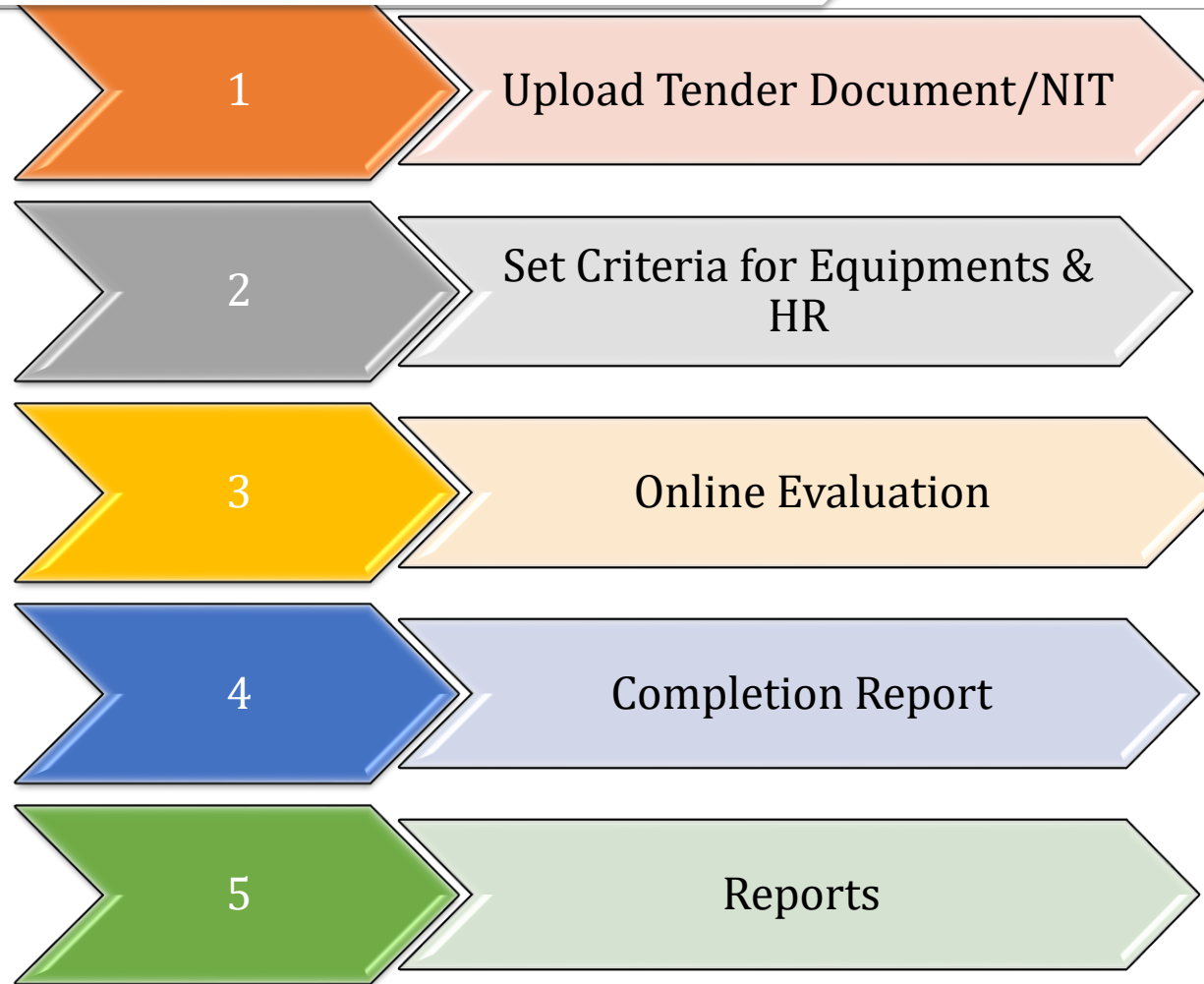


e-tool status as of 24th March, 2019

Class	No. of works	Contract Amount
S	8,271	9,673,835,613.40
R	21	18,742,068.09
M	4,216	25,414,349,773.79
L	1,369	68,009,328,749.65
Total	13886	103,203,040,132.98



e – Tool modules





Audit Trail/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:
 - I. HR/Equipment Added or Deleted for a particular work id.
 - II. If check operation was performed for HR/Equipment
 - III. When was the work awarded/completed and processes performed



Critical Issues/Case Study:e-Tool

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



Critical Issues/Case Study:e-Tool

1. Loosely defining the qualification requirements and allocation of score in each parameters (HR & Equipments).

Sl.No	Tier	Name	Qualification	Point
1	Tier I	Project Engineer	Diploma with 8+yrs / degree civil engineer with 5+yrs exp	20
2	Tier I	Project Engineer	diploma with 0-5 yrs / degree civil engineer with 0-3 yrs exp	14
3	Tier I	Project Engineer	Diploma with 5-8 yrs/ degree civil engineer with 3-5 yrs exp	16
4	Tier I	Project Engineer	any other level or qualification or exp	0
5	Tier II	Site Supervisor	personnel with Diploma civil engineer	16
6	Tier II	Site Supervisor	any other level of qualification or exp	0
7	Tier II	Site Supervisor	personnel with formal training certificate from VTI and at least 0-5 yrs exp	14



Critical Issues: Contractor Registration

Submission of all minimum mandatory information during registration.

1. Human resource :

- I. Legal Undertaking letter from the employee.
- II. Qualification Certificate .
- III. Citizen ID copy/ work permit copy of the employee.
- IV. Relieving letter/ NoC from the previous employer.
- V. Legally execute contract with all employees



Critical Issues: Contractor Registration

2. Equipment:

- I. Submit copy of Blue Book & Insurance certificate.
- II. All equipment must be in the name of Company or Proprietor (sole proprietor ship).
- III. Duly Endorsed list of equipment by a Govt. Engineer for Equipment which are not registered with RSTA. (**Engineers should endorse those equipment only after physical verifications or if the firms has executed works with your agency**)



Work Completion Form

Status *

Completed ▼

Contract Price (Initial) Nu. *

877200.00

Contract Price (Final) Nu. *

4223000.00

Date of Commencement (Official) *

26-01-2017

Date of Commencement (Actual) *

26-04-2017

Date of Completion (Official) *

14-05-2017

Date of Completion (Actual) *

26-04-2017

Ontime Completion (out of 30) *

30.00

Quality of Execution (out of 70) *

70.00

☐ LD Imposed

No. of days

Amount

☐ Hindrance

No. of days

APS Form

No file chosen

Remarks

As per the site engineer report , the work is completed on time.



Points to Note

- ✓ Commitment of VTI – Specify Duration- Keep Record
- ✓ Do not share your credentials



CiNET

(online Construction Industry Information System)

The system provides an interface for agencies who does not follow RGoB procurement rules or e-tool to update works awarded and completed online.

Agencies can also upload their NITs and check works in hand other related information.

Work information of ADB/World Bank/Donor funded projects can be updated using CiNET



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4. Nomination/Appointment of Users/Focal Person

The respective Head of Department/Agencies/Division should:

- i. Nominate focal person based on the nature of job responsibilities; ii. Have contingency plan to replace/deactivate user credential in case of transfer or resignation of the existing Focal Person;
- iii. Make use of Focal Person throughout the procurement cycle;
- iv. Make use of e-tool certified individuals as focal person; and
- v. Verify, accept the substitution of HR and Equipment and request release of any in writing to CDB Secretariat.

5. Declaration of 'Conflict of Interest'

- i. A focal person who is directly or indirectly, related to the bidders shall declare 'Conflict of Interest' as per PRR and SBD or any other relevant sub-ordinate legislations.



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6. Responsibilities/duties of the Users

ii. The e-tool and CiNET Users: The duties of e-tool and CiNET Users are:

- ✓ a. To Provide Construction Industry information to their respective agency;
- ✓ b. To create awareness on e-tool & CiNET to their respective agency;
- ✓ c. To upload NIT and tender documents on CDB web;
- ✓ d. To help evaluate bids;
- ✓ e. To validate the HR and Equipment during evaluation process;
- ✓ f. to keep record of clarifications sought in writing;
- ✓ g. to keep record of evidences for justifying evaluation;
- ✓ h. to keep record of Minutes of any decisions pertaining to the evaluation;
- ✓ to Provide evaluation report as and when requested by the concerned agency;
- ✓ j. to Update the work information on e-Tool/CiNET on time;
- ✓ k. To Perform 'check operations' as required during evaluation;
- ✓ l. To Make tenders available for download in time;
- ✓ m. To Make addendums and corrigendum's available in time;
- ✓ n. To Provide authentic contact information for the works being tendered;
- ✓ o. To Provide correct information at all times; and
- ✓ p. To maintain complete confidentiality of the bidding process.



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iii. The Focal Person should be Accountable for unauthorized sharing of his/her user credentials.

iv. The Focal Persons should not:

- a. Give access to any information unless it is for evaluation or official purpose;
- b. Share evaluation details with others except for evaluation Committee and Tender Committee; and
- c. Perform evaluation and update work information off hours unless exceptionally required



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Disclaimer: The Procuring Agencies/Focal Person should avoid evaluating multiple packages at the same time as a bidder might submit same documents in all the packages. Any event occurred thereafter, CDB will not be responsible.

NOTE : This Terms and Conditions is a dynamic document and may be reviewed and changed in the form of amendment, additions or deletions according to the needs of changing times.



Thank You