Pay Order No. & Amount:



GOVERNMENT OF SINDH

Name of Department: Sindh Irrigation & Drainage Authority (SIDA), Hyderabad Rehabilitation / Re-sectioning of Matti Branch 0 to Tail and Name of Project/Scheme: Manik Wah 0 to Tail and Bridge over Phulleli in Matli City Desilting of Matli Branch Canal offtaking channels of Phulleli System. Construction of Bridge over RD 132 Village Usman Mandhro, Arab Mandhro Mirwah Talhar. Restoration / Rehabilitation of Sultani Branch Mirwah System, Morjhar Branch System and Imam Wah Jagir System. Name of Procuring Agency: Sindh Irrigation & Drainage Authority (SIDA), Hyderabad Document issued to: M/S

1.0 Introduction

The basic aim of the pre-qualification is intended to eliminate, early in procurement proceedings, constructors that are not suitably qualified to perform the contract. The pre-qualification specifically means selection of competent bidders prior to issuance of the invitations to bid. It is required for large and complex civil works contracts, turnkey contracts, and contracts for the fabrication of expensive and technically complex plant and equipment. This is to ensure that only firms with appropriate experience, a proven track record, and necessary annual turnover and that, can provide all the equipment required in a timely manner and will be only invited to submit bids. Thus assessment by an implementing agency of the suitability of firms to carry out a particular contract prior to being invited to submit a bid is a process called prequalification.

2.0 Sindh Public Procurement Rules 2010

When and how to engage in the pre-qualification process, is clearly explained in SPP Rules 27 & 28, 2010 and same may be referred for further guidance.

3.0 The Prequalification Process

3.1 Advertisement and Notification

The Invitation for Prequalification (IFP)/Pre-qualification notice shall be advertised in the manner explained in the SPP Rules 15, 17 & 18 of 2010.

3.2 Preparing and Issuing of Prequalification Document

The Procuring Agency is responsible for preparing and issuing the Prequalification Document to all interested bidders. All information and data particular to each individual prequalification process must be provided by the agency in the following sections of the Prequalification

- 4.0 Section I. Instructions to Bidders (ITB);
 - 5.0 Section II. Eligibility & Evaluation/Qualification Criteria;
 - 6.0 Section III. Application Forms;
 - 7.0 Section IV. Scope of Contract





Left Bank Canals Area Water Board, Badin

Phulleli Canal Division, Badin

Camp Office @ Left Bank Barrage Colony, Hyderabad Phone No.022-9210343 Website: www.sida.org.pk



No. TC/G-55/105

of 2015, Badin, Dated:

16/01/2015

NOTICE INVITING PREQUALIFICATION OF CONTRACTORS

Applications are invited for prequalification of contractors regarding below works which will be executed under the New ADP Schemes 2014-15 in Phulleli Canal Division Badin.

S.No.	ADP No.	Name of Scheme				
01. 1190		Rehabilitation / Resectioning of Matli Branch 0 to tail & Manik Wah 0 to tail and bridge over Fulleli in Matli City.				
02.	1194	Desilting of Matli Branch Canal offtaking channels of Phulleli System.				
03.	1195	Construction of Bridge over RD 132 Village Usman Mandhro, Arab Mandhro Mirwah Talhar.				
04.	1222	Restoration / Rehabilitation of Sultani Branch Mirwah System, Morjhar Branch System and Imam Wah Jagir System.				

Firm, company which should be registered with Pakistan Engineering Council in category up to C-6 and above.

The interested person, firm, company are required to supply following particulars / copies of documents duly attested along with brochure / application for prequalification so as to receive in the office of the undersigned on or before 17th February 2015 along with pay order of Rs.1000/- (Non refundable) for prequalification documents in favor of undersigned.

- (A) Registration certificate with Pakistan Engineering Council year-wise.
- (B) Bio-Data of engineers and other technical staff employed by the Firm/ Contractors.
- (C) Completion certificate of the works carried out by the applicants from the concerned Executive Engineers.
- (D) Copies of the work orders of the ongoing works, if in hand.
- (E) The List of available machinery with documentary evidence of ownership.
- (F) Working capitals in hand for work (attach proof of Bank Statement / Credit facilities).
- (G) In case of joint venture, firm, company or an organization applying for the prequalification, the details of the partners / partnership deed with powers of attorney should be provided.
- (H) Annual Income Tax Certificate for the Financial Year 2013-14 along with National Tax Number (NTN).
- (I) Affidavit stating that the firm / company is not black listed in any Government Department.
- (J) The competent authority reserves the right to reject any or all applications for the prequalification without assigning any reason thereof.
- (K) No application will be entertained, if received after the date specified above.

EXECUTIVE ENGINEER
Phulleli Canal Division
Badin



Left Bank Canals Area Water BoaRD, Badin Phulleli Canal Division, Badin

Camp Office @ Left Bank Barrage Colony, Hyderabad Phone No.022-9210343

Website: www.sida.org.pk

No. HC/G-78/ /61

of 2015, Badin, Dated:

29/1 /2015

CORRIGENDUM - I

- It is to inform that the SPPRA has amended the Rules that all the contractors should be registered with Sindh Revenue Board in term of Rule 46(1)(iii) of SPP Rules, 2010 (Amended 2014).
- That procuring agency may reject all or any bid subject to relevant provision of SPP Rules 2010.

Phulleli Canal Division
Badin

- Copy forwarded with complements to the Managing Director, Sindh Irrigation and Drainage Authority SIDA, Hyderabad for information.
- Copy forwarded to the Manager (CB), SPPRA, Government of Sindh Karachi for information.
- Copy forwarded to the Director, Left Bank Canals (AWB), Badin for information.
- . Copy to IT Specialist SIDA, Hyderabd for upload on SIDA website.

Phulleli Canal Division
Badin

Section I. Instructions to Bidders / Applicants (ITB) 4.0

- Clause 1 The firm/contractor shall enclose the (one original and 01 copies) of the documents in a sealed envelope which shall:-
 - (a) bear the name and address of the Applicant;
 - (b) be delivered by hand or through courier/registered mail to address mentioned in advertisement for pre-qualification or in document; and
 - (c) be clearly marked "Application for Pre-qualification for
 - 1. Rehabilitation / Resectioning of Matli Branch 0 to tail & Manik Wah 0 to tail and bridge over Fulleli in Matli City
 - 2. Desilting of Matli Branch Canal offtaking channels of Phulleli System.
 - 3. Construction of Bridge over RD 132 Village Usman Mandhro, Arab Mandhro Mirwah Talhar.
 - 4. Restoration / Rehabilitation of Sultani Branch Mirwah System, Morjhar Branch System and Imam Wah Jagir System.
- If the envelope is not sealed and marked as required, the procuring agency will Clause 2 assume no responsibility for the misplacement or pre-maturing opening of the document.
- Clause 3 Document shall be prepared in the English language. In case of ICB, the information provided in any other language shall be accompanied by English translation also.
- Firm/Contractor must respond to all questions and provide complete information as Clause 4 advised in this document. Any lapses to provide essential information may result in dis-qualification of the firm/contractor.
- Clarification and Modification of Documents (SPP Rule 23). Clause 5 Firm/Contractor, who has obtained documents, may request for clarification of contents of the bidding document in writing, and respond to such queries shall be made in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of bid.
- Addendum: At any time prior to the deadline for submission of documents, the Clause 6 agency may amend the Prequalification Document by issuing addenda. Any addendum issued shall be part of the Prequalification Document and shall be communicated in writing to all who have obtained the prequalification document.
- Clause 7 Deadline for submission of Documents (SPP Rule 22 & 24): Documents shall be received by the agency at the address Executive Engineer, Phulleli Canal Division, Badin Camp Office at Left Bank Barrage Colony (Officers Colony) Hyderabad Phone No.0229210343 and Fax No.0229210343, not later than the 17th February 2015 before 5:00 P.M. The procuring agency may, at its discretion, extend the deadline for the submission of documents by amending the Prequalification Document, and in which case all rights and obligations of the Agency and the firms/contractors subject to the previous deadline shall thereafter be subject to the deadline as extended.

- Clause 8 Evaluation (Rule 27 (2): Firm's/Contractor's general and particular experience, personnel and equipment capabilities, and financial position, as demonstrated by the Applicant's responses in the prescribed forms will be evaluated as per evaluation criteria given in the document. The Procuring Agency reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the contract. Sub-contractor's experience and resources shall not be taken into account in determining the firm/contractor compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of firms will be considered for similar treatment as in case of Joint Venture.
- Clause 9 Clarification of Prequalification Information (Rule 43): To assist in the evaluation of information, the agency may, at its discretion, ask any firm/contractor for a clarification of any information which shall be submitted within a stated reasonable period of time. Any request for clarification shall be in writing. If any firm/contractor does not provide clarifications of the information requested by the date and time set in the agency's request for clarification then application of the firm/contractor may be rejected.
- Clause 10 Verification of Prequalification Information (Rule 28 (1d)): Verification of the information provided by the pre-qualified/shortlisted firms/contractors in the submissions for prequalification may be made. In case the information is found to be wrong or incorrect in any material way or firm/contractor is found to be lacking in the capability or resources to successfully perform the contract, then it shall not be pre-qualified.

5.0 Section II. Evaluation / Qualification Criteria.

In this section two evaluation criteria are being given for the benefit of the procuring agency. One is based on marks/score and the other is based on pass/fail criteria. Procuring agency may adopt any one of these selection methods while prequalifying the contractors/firms.

Criteria based on Marks.

Mandatory Provisions / Eligibility: Firms/Contractors must possess (i) valid registration certificate of PEC in the category C-6 or above and in CE02/CE04 discipline for 2013-14 year; (ii) valid registration certificate from income tax authority (NTN); and (iii) is not black listed. (Attach all certificates and affidavit of not black listing).

Aggregate Qualifying Score is 60%, but it is mandatory to obtain at least 30% in each of the following sections.

(A) Company Profile.

i.	Period since Firm / Contractor is in construction	10 Marks
	business	10 Marks
	Up to 5 years	02 Marks
	Up to 10 years	
	Above 10 years	05 Marks . 10 Marks
	(Attach PEC license for each year)	
ii.	Office facilities	05 Marks
	In Sindh province	03 Marks
	In any other province / Islamabad	01 Marks
	Outside Country	
Gener	al Experience Record	01 Marks
i.	Projects of similar and complexity	35 Marks
	completed over 05 years.	20 Marks
	(4 Marks for each project)	
ii.	(Attach PEC license for each year) Projects of similar nature and complexity in hand (5 Marks for each project having cost Million or above)	15 Marks

(Attach copies of work orders)

(C) Personnel Capabilities required for this project

20 Marks

Requirement of persons will vary from Project to Project.

Following factors may be used as a guideline:

Sr. No.	Description/Position with qualification & experience	Number Required	Marks assigned	Remarks
1.	BSc (Civil Engg.) /BE(Civil) Engineers registered with Pakistan Engineering Council (PEC) with experience of 5 years or above.	2 Nos.	10	03 Marks for experience of 5 to 10 years. 05 Marks for above 10 years. (Attach Tax payment challans showing at least 1 year continuous employment with firm. 1 additional Mark for MSc (Civil Engg:)/M.E.(Civil)
2.	Diploma in Civil Engineering, with experience of 2years or above.	04	10	02 Marks for 02 years experience, 03 Marks for above 02 years.

Equipment Capability (D)

20 Marks

- Critical equipment and number required for the Project shall be specified by the (a) Procuring Agency. (b)
- High value equipment should be an option to own, lease or hire. (c)
- Total equipment available with the applicant is to be listed along with its current mobilization on on-going projects.

(Details are to be provided in the attached form)

Financial Soundness /Status (E)

10 Marks

For Financial Status assessment, the Applicants may be required to submit Audited Financial Statements for the last five years or any other document which verifies their Financial Status. Where necessary, the Procuring Agency will make enquiries with the firm's/contractor's bankers.

Working Capital in hand for this project/work (Attach proof of Bank Statement/Credit Facilities)

ii. iii. iv.	Less than 15% of Estimated Cost of this Work 16 - 25% of Estimated Cost of this Work 26 - 40% of Estimated Cost of this Work More than 40% of Estimated Cost of this Work	02 Marks 04 Marks 08 Marks 10 Marks
--------------------	--	--

Evaluation/Qualification Criteria: Based on Yes/No or Pass/Fail system. 2

Mandatory Provisions/Eligibility: Firms/Contractors must possess (i) valid registration certificate of PEC in the category or above and in discipline for year; (ii) valid registration certificate from income tax authority (NTN); and (iii) is not black listed. (Attach all certificates and affidavit of not black listing)

Required Documents: It must include following information/documents:-

- Firm/Contractor have been in business of construction at least for 5 years. (A)
- Experience and past performance. (B)
 - Have completed Two (2) similar assignments having cost & (i) least 6 project in the last five (5) years.
 - Have executed at least one (1) project in similar ge (ii) mical constition in last five (5) years.

(Attach performance certificates of complete

Key Personnel Qualification & Experience (C)

(Requirement will vary from a symment to symment).

Site Engineers, Qualification BE (Civil), Number: Two (2).

Experience: Two (2) similar assignments,

seven (7) years experience.

Qualification: Diploma in Civil, Number: Four (4).

Experience: One (1) similar assignment,

Three (3) years experience.

Quantity Surveyor:

Diploma/Certificate Course in Drafting, One (1) Experience: Two (2) years

(Brief CVs of personnel be attached).

(D) Equipments:

- Critical equipment and number required for the Project shall be specified by the (a) Procuring Agency. For guidance procuring agency may refer to annexure-I.
- (b). High value equipment should be an option to own, lease or hire.
- Total equipment available with the applicant is to be listed along with its current (c) mobilization on on-going projects.

(Details are to be provided in the attached form)

Financial: (E)

- Documentary evidence of financial position, bank statement or audited accounts of the last Three (3) years.
- Average Annual turnover of the last three years should not be less than Thrico tost (ii)

(F) Any other information:

Any other document/information desired by p hall not discriminate among contractors/firms.

Contractors/firms who fail to qualify in a the above sections shall be disqualified from the prequalification process.

6.0	Section III. Application Forms;
	A-I Application Submission Form (The covering letter is to be submitted by the interested firm/contract or partner responsible for a joint venture, or appropriate company letterhead)
m.	Date:
То	P
	Executive Engineer, Phulleli Canal Division,
	Badin, Camp Office @
	Left Bank Barrage Colony
	Officers Colony, Hyderabad.
Dear Sir,	
Subject	Prequalification of Contractors for ADP Scheme 2014-15.
	(Package-wise list Attached)
	and the same of th
	I the undersigned, being duly authorized to represent and act on
behalf of	applies to be prequalified for the project cited above and enclose one
(1) origina	al (together with ——copies) of pre-qualification documents and declare the following:
a)	I have examined and have no reservations to the Prequalification
	Document, including Added No. (2)
	Document, including Addenda No(s), issued in accordance with ITB Clause 6.
b)	
	I understand that Procuring Agency may cancel the prequalification process at any
	time and that Procuring Agency is not bound either to accept any application that it
	receive or to invite the prequalified applicants to hid for the
	prequalification, without incurring any liability to the
	TP words.
c)	Bids by prequalified applicants will be subject to verification of all information
	and prequamication at the time of hidding.
d)	Agency reserves the right to amend the scope and value of
	to the blus will only be called from any tree the
	The second of th
2.	The Procuring Agency and its and
lottowing pe	rson(s) for further information, if needed;
	Person to be contacted:
3.	The undersigned declares that the statements and the information provided are
complete, true	e, and correct in every detail.
	Simad
	Signed: Name:

LIST OF PACKAGES

S.No.	Name of work and Package No.					
1	3					
TOUR LINE	HABILITATION / RESECTIONING OF MATLI BRANCH O TO TAIL & MANIK WAH 0 TAIL AND BRIDGE OVER FULELI IN MATLI CITY ADP No.1190 / 2014-15, PC-1 Cost. 335.585 Million					
1	Re-sectioning of (a) Matli Branch RD 0 to tail, (b) Matli Distry RD 0 to tail, (c) Matli Minor RD to tail and (d) Construction / Rehabilitation of 33-Nos. Modules along Matli Branch (Package No.1)					
2	Re-sectioning of Manik Wah from RD 0 to tail (Tando Bago sub Division) (Package No.2)					
3	Construction of Syphon of Matli Branch (Matli Sub Division).(Package No.3)					
4	Construction of Bridge (a) Matli Branch RD 7, (b) Matli Branch RD 12, (c) Matli Branch RD 41, (d) Matli Branch RD 48, (e) Matli Branch RD 89, (f) Matli Distry RD 7 and (g) Manik Wah RD 16 (Package No.4)					
5	Construction of Road Bridge over Main Phulleli at RD 205 in Matli City.(Package No.5)					
DE-	SILTING OF MATLI BRANCH CANAL AND OFF-TAKING CHANNELS OF PHULLEL SYSTEMADP No.1194 / 2014-15, PC-1 Cost. 59.526 Million.					
1	De-silting of (a) Murad Wah RD 0 to tail, (b) Murad Distry RD 0 to tail, (c) Murad Minor RD 0 to 23, (d) Bahawali Distry RD 0 to 23, (e) Panjtana Minor RD 0 to tail, (f) Ali Bahar Distry RD 0 to tail, (g) Mubarak Wah RD 0 to tail, (h) Shah Wah RD 0 to tail, (i) Jarki Minor RD 0 to 63 and (j) Imam Wah Janubi RD 0 to tail (Package No.1)					
2	De-silting of (a) Naseer Branch RD 0 to tail, (b) Khureri Minor RD 0 to tail, (c) Jamsher Wah RD 0 to tail, (d) Chaneri Distry RD 0 to tail and (e) Dando Naali RD 0 to tail (Package No.2)					
3	De-silting of Jakheji from RD 0 to Tail (Package No.3)					
1	MANDHRO, MIRWAH TALHAR ADP No.1195 / 2014-15, PC-1 Cost. 42.420 Million. Construction of Bridges over Mirwah Talhar at RD – 36, RD – 121, RD – 132 and RD – 147 (Package No.1)					
	RESTORATION / REHABILITATION OF SULTANI BRANCH, MIRWAH SYSTEM, JHAR BRANCH SYSTEM AND IMAM WAH JAGIR SYSTEM ADP No.1222 / 2014-15, Po 1 Cost. 540.497 Million.					
1	Restoration/Rehabilitation of Sultani Branch RD 0 to 50 (Both sides).(Package No.1)					
2	Restoration/Rehabilitation of Sultani Branch RD 50 to 100 (Both sides).(Package No.2)					
3	Restoration/Rehabilitation of Sultani Branch RD 100 to tail (158.60).(Package No.3)					
4	Re-sectioning / Rehabilitation of Mirwah Talhar Branch from RD 0 to 80.(Package No.4)					
5	Re-sectioning / Rehabilitation of Mirwah Talhar Branch from RD 80 to 160.(Package No.5)					
6	Re-sectioning / Rehabilitation of Mirwah Talhar Branch from RD 160 to 225.(Package No.6)					
7	Re-sectioning / Rehabilitation of Morjhar Branch from RD 0 to 32.(Package No.7)					

S.No.	Name of work and Package No.				
1	3				
8	Re-sectioning / Rehabilitation of Morjhar Branch from RD 32 to 119.6.(Package No.8)				
9	Rehabilitation of 60-Nos. Modules along Sultani Branch.(Package No.9)				
10	Rehabilitation of Modules along Morjhar Branch.(Package No.10)				
11	Re-sectioning / Rehabilitation of Imam Wah Jagir RD 30 to 90 (Package No.11)				
12	Re-sectioning / Rehabilitation of Imam Wah Jagir RD 90 to 170 (Package No.12)				

EXECUTIVE ENGINEER PHULLELI-CANAL DIVISION BADIN

A-II

1.	Company	Profile
	Company	LIOINE

Date:
Contract:

All individual firms and each partner of a joint venture applying for prequalification are requested to complete the information in this form.

- 1.), legal name of each partner:	
2.	Nature of Business: (Whether the firm is a Comme	ration, Partnership, Trust etc.)	
3.	Head Office Address:		
4.	Telephone Fax numbers: E-mail address:		
5.	Place of Incorporation/Registrat		
6.	Applicant's authorized representative: Telephone Fax numbers: E-mail address:		
7.	NATIONALITY OF OWNERS.		
··	Name:	Country:	

А-Ш

2. General Experience Record

(i) Details of Contracts of Similar Nature and Complexity completed over the last 05 years

1	2	3	4	5

(ii) Projects of similar nature and complexity in hand.

Firms/ Contractors and each partner of the joint venture should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, for which Completion Certificate has yet to be issued.

Name of Contract	Value of Contract	Name of Procuring Agency	Value of Outstanding work (Equivalent Pak Rs. Millions)	Estimated Completion Date
L				
2.				
3.				
		Ti		

(iii) Projects executed in similar geographical conditions in last five (5) years.

Sr. No.	1	2	-3	14	1-
Name of Contract:				4	5
Country & location					
Name of Procuring Agency With Address, Tele, Fax.					
Nature of works and special features relevant to the contract for which applied:					#
Contract Role (Mention: Sole, Sub Contactor or Partner in a Joint Venture).					
Value of the total contract in Pak/Rs					
ate of Award:					
te of Completion					

4 (A) Personnel Capabilities

Firm/Contractor should provide the names of suitably qualified personnel to meet the specified requirements stated in Section 3 (Evaluation and Qualification Criteria).

Sr. No.	Title of Position	Name
1	7:5	
2 .		
3		
4		•
5		

A-V

The data regarding experience of the personnel mentioned at A-IV should be supplied separately using the Form below.

Curriculum Vitae (CV) for Proposed Experts 4(B)

1. Proposed Position:	
2. Name of Expert:	
Telephone No:	Fa. II
	Fax No:
. Date of Birth:	Citizanati
. Qualification:	
Indicate particular test	essional experience in reverse chronological order.

Indicate particular technical and managerial experience relevant to the project.

From	To	Televant to the project.
	10	Company / Project / Position / Relevant technical and managemen

A-VI

- Firm/Contractor shall provide adequate information to demonstrate clearly that it has
 the capability to meet the requirements for the key equipment whether owned/ leased/ rented
 listed in Section 3 (Evaluation and Qualification Criteria).
- A. Equipment Capabilities (owned by the contractor/firm)

Sr. No.	Name of Equipment	Name of manufacturer	Model and power rating	Capacity	Year of manufacture	Current
1		M 1 9				
2				-		
3						
4						THE
5	E SEER		0.			
6				1		
7						
8						
9						
0					The Co	

Equipment Capabilities (leased/rented by the contractor/firm) В.

Sr. No.	Name of Equipment	Mention whether leased or rented	Name of owner	Address of owner	Contact name and title with Telephone Fax & E Mail of the	Agreements Details of rental lease / manufacture agreements specific to the
1				-	owner	project
2						
3						BITTE STATE
4						
5						
6						
7					The state of	
	0		3. 30.6			
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- Financial Resources.
 - A. Banker's Information:

Sr. NO.	Name & Bank	Address of	Contact name and title	Telephone, Fax & E- Mail Address
La la				

B. Financial Status: Summarize actual assets and liabilities in Pak Rupees for the previous three years.

Information from Balance Sheet/ Income Statement 1.Total Assets (TA)	Year 1:	Year 2:	Year 3:
2. Total Liabilities (TL)			
3. Current Assets (CA)			
. Current Liabilities (CL)			
Total Revenues (TR)			
Profits Before Taxes (PBT)			
Profits After Taxes (PAT)			

PREQUALIFICATION DOCUMENT Source of Financing: Contractor/ Firm shall provide documentary evidence for funding the project for which prequalification is being undertaken. C.

Section IV. Scope of Contract: (Description of works and period of Completion)

Annexure-I

(Procuring agency may opt types of equipments and their number as per requirement of project. It may also add any equipment as per requirement.)

- Earth moving Machinery (Grader, Bulldozer, Excavator, Roller etc)
- (ii) Concrete Batching Plant (30cuM/hr Cap)
- (iii) Shuttering (form work) -- sq ft.
- (iv) Concrete Pump
- (v) Vibrator
- (vi) Dumper Trucks
- (vii) Shower/Loader/Backhoe
- (viii) Steel cutting & Bending Machine
- (ix) Concrete Transit Mixer (6 cuM/hr)
- (x) Scaffolding Pipe

Note: The following formula is applicable to evaluation criteria based on marks / score only.

 If the available quantity of each equipment is less than specified limit, give weightage as under;

T = Mx (A / Required Quantity)

 If the available quantity of each equipment is more than the minimum equipment requirement full marks will be given.

A = Available quantity of each equipment of each item

T = Marks obtained

M = Marks assigned