

**Sub: Design & Construction Management System: Circular –6.**

**Ref: Guide lines for preparation of Bid document for National Competitive Bidding (NCB) item rate contracts for the works to be taken up under RUSDIP.**

During review of Bid Documents for item rate contracts under NCB, it is observed that experts prepare documents in different styles interpreting various clauses in their own way. In order to have uniformity in preparation of Bid documents for NCB item rate the concerned IPIU in-charge should thoroughly examine the bid documents to its correctness in all respect and incorporating the desired details in the bid document. Following guide lines are issued for reference and strict compliance.

## 1. General

- (a) Consultants are expected to use approved Standard Bid Document for item rate NCB contracts. The same is available at: *Mainframe\PMU\Second Phase-RUSDIP\Important Documents\Standard Bidding Document* and will also be available on the website www.ruidp.gov.in.
- (b) Name of work - Should be exactly that published in Invitation for Bids.
- (c) The Color of the Cover pages of the various documents is specifically defined as under and should be followed:-
  - Volume-I (Technical) : Blue
  - Volume-II (Price) : Pink
  - Design report : Green
  - Concept report/ plan : Yellow
- (d) Contents Page- Page Nos. and Signatures of concerned authority should be placed properly. Each page of the bid document should be signed by concerned Expert & TL/ DTL of DSC, TL of IPMC, concerned JEn/ AEn & EE of IPIU. All the page nos. should be totaled at the end for each photocopy of the bid document, with signatures of DSC & IPIU Officials.
- (e) Invitation for Bids(IFB) - IFB issued by PMU duly signed by the Project Director shall be put under this section.
- (f) **Section I – Instruction to Bidder, Section VII – General Condition of Contract and section IX - Sample Form of Acceptance, Agreement and Performance Security, etc. shall remain absolutely unchanged. These sections need not to be touched for any modifications.**

## 2. Section II – Bidding data

The specific data mentioned in this section-II for the works to be procured shall complement, amend, or supplement the provisions in Instructions to Bidders – Section I. Whenever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders. Following Clauses need to be filled in while preparing Bidding data

- (a) Clause 1.1 (Name of the Works) - Name of Works (As per IFB) and brief description of works shall be given.

- (b) Clause 7.4 (Pre – Bid Meeting) - Date of Pre – bid Meeting to be filled as per Invitation for Bids. Insert whether site visit is to be organized or not.
- (c) Clause 18.1 (Bid Validity) - Period (120 days after the last date of submission of bid for NCB item rate contracts) and date of bid Validity shall be mentioned.
- (d) Clause 19.1 (Bid Security)- Amount of bid security to be given and date of validity to be mentioned.
- (e) Clause 21.2 (Sealing and Marking of Bids)- Name and Package No. of contract and Time of bid opening should be mentioned.
- (f) Clause 22.1 (Dead line for submission of Bids)- Date & Time for the same shall be mentioned.
- (g) Clause 25.1 (Bid opening) -Date, Time & Location for bid opening should be mentioned as given in IFB.
- (h) Clause 42.1 (Performance Security) –Insert name of the town in the blank spaces.

### **3. Section III - Evaluation and Qualification Criteria**

Following Clauses need to be filled in while preparing Bidding document.

- (a) Clause 3 (B): Financial Criteria:- Calculate the average annual construction turnover, working capital, and net worth and round them off in lacs and fill them in place of the formulas in the table.
- (b) Clause 3 (C)-(b): Experience Criteria: Calculate the value of the work and round them off in lacs or mention similar capacity in case of built-up plants like water/ sewage Pumping Station/ WTP/ STP. Fill the calculated amount/ capacity in place of the formulas in the para.

### **4. Section IVA – Technical Bidding Forms**

- (a) Fill the Date, NCB No., IFB No., and insert the name of the work in para-(b) and validity period in para(c) in the Letter of Technical Bid.
- (b) Fill the amount of bid security for the contract package and name of contract package same as in IFB in the Bid Security Form.
- (c) Update the years in the Form FIN-1: Financial Situation Form.
- (d) In Form TEC-5: Work Plan; mention the contract period and accordingly modify the Table and insert the important physical parameters (as per the Indicative Work Plan in Section-6), required to be achieved by the contractor.
- (e) Modify the Form – TEC-7: Technical Proposal & Form TEC-8: Operating Cost-Power Loading as per the requirements. These are to be used mainly for the water/ sewage Pumping Stations/ WTP/ STP. If not applicable delete both the forms.
- (f) Modify the name of contract package and insert the Information's in the Form FIN-4: Sample Form of Letter of Assured Line of Credit.

### **5. Section – VI Technical Specifications: Part B (Particular Specification)**

Following Clauses need to be filled in while preparing Bidding data

- (a) Clause 1.0:- Description of Work: Give the description of work
- (b) Clause 2.0:- Scope of work: Give the scope of work in detail mentioning areas of interventions, work places, salient features of site conditions, proposed work details, sequencing of execution modalities, handing over of site, shifting of utilities, etc.
- (c) Clause 3.0:- Topographical Surveys : Provide details of topographical surveys and Geotechnical surveys
- (d) Clause 4.0:- Work Plan: Give the desired work plan. Specific attention needs to be given for field testing, road restoration, etc.

- (e) Clause 5.0:- Site Possession: Fill the Indicative Work Plan table, Site Handing over Schedule and detailed construction drawings.
- (f) Section B-2: Particular Specifications for Civil Works:- The Technical and special Specifications pertaining to that particular contract package shall be enclosed in details. It should also consist the required details of field testing like sectional hydro testing of water supply/ sewer pipelines etc and Water sampling analysis in case of WTP, Raw sewage parameters in case of STPs.
- (g) The Technical and special Specifications pertaining to that particular contract package shall be enclosed in details –
  - Interface with other Contract packages.
  - Drawing/ Design submission/ approval schedule.
  - Field testing of facilities.
  - O & M of facilities defining RUSDIP/ Line agency responsibilities.
  - Provision of Triplicate Agreement for O & M of facilities between Contractor, RUSDIP and the Line Agency e.g. PHED/ PWD/ UTIs/ Municipal Boards/ ULBs etc.
  - Contractor's responsibility.
- (h) Drawings- List of drawings & the drawings (mentioning Tender Purpose only) shall be enclosed
- (i) Supplementary Information: Any other additional information associated with the package, if required, should be provided.

**6. Section VIII – Particular Conditions of Contract (PCC)**

Following Clauses need to be filled in while preparing Bidding data

- (a) Clause 2: Interpretation: Sectional Completion if required should be defined in Individual package & any other document listed, otherwise that listed in Clause 2.3 of Section-VII should be defined in the package.
- (b) Clause 6.2:- Communications- Fill in the office address of PIU concerned
- (c) Clause 8: Other Contractors:- If there is any inter facing Contracts, then the specific details of those contracts should be mentioned.
- (d) Clause 9:- Personnel & Equipments- The minimum supervising personnel required should be mentioned.
- (e) Clause 16: The Works to be completed by the Intended Completion:- The work completion period is required to be mentioned.
- (f) Clause 37 (Variations):- Fill in the month & year of the Schedule of Rates (SOR) of RUSDIP that is adopted for this package.
- (g) Clause 44 (Price Adjustment):- If applicable, this clause may be retained for contract packages having completion period more than 6 months and amount exceeding Rs. 50 Lac (accepted tendered amount minus cost of material supplied by the department), (both the conditions should be fulfilled). Else, it should be mentioned that "As contract completion period is less than 6 months/ amount less than Rs. 50 Lakhs, no price adjustment is applicable even if the completion period is extended beyond Six months due to any reasons what so ever. The clause 44.0 is deleted in its entirety".
- (h) Clause 44.2 - Adjustment Formula: Fill the exact percentage of labour/material (excluding materials to be supplied by the department)/steel/ cement/ bitumen/ diesel and petrol component and labour component for the work, after getting approved by the authority while sanctioning the detailed Estimates.
- (i) Clause 86 - Field Laboratory: - Provide the list of equipments. A specific BOQ item mentioned in this regards.
- (j) Clause 87 – Inspection Material: - Provide the list of category of inspection / tests.

**7. Section 4B : Preamble to Bill of Quantities & Bill of Quantities**

The Quantities for all the items shall be covered in this section. The Preamble to BOQ is to be changed with the Annexure-1 and this Preamble to BOQ should be thoroughly read and necessary changes should be made in accordance to the work requirement.

- 8. It may be noted that sections II,III, IV-A, V, VI, VIII & IV-B should be carefully prepared whereas section I, VIII & IX are totally standard. Also, any other changes made in the bid document, should specifically be mentioned in the covering letter of DSC's and PIU's.**

**9. Quality check of Bid document**

EE, IPIU & TL/DTL, DSC should constitute a quality control cell of 2 to 3 persons who should read the bid document thoroughly from cover to cover before submitting to IPMU/ IPMC.

This circular should be abided by all the members of IPMU, IPIU, IPMC and ~~DSC~~.

  
(Karni Singh Rathore)

Project Director

Dated: 30.01.2008

F3 (106) (32)/RUSDIP/PMU/CMS/2007/16427-70

Copy to following for information and necessary action:

1. Addl. PD -I & II/ FA/ SE (D-I)/ Dy. PD (T)/ Dy. PD (Adm.)/ SE (WW)/ SE(R&B)/ SE (Mon) / PO (all)/ Sr. AO / All APOs / AAO/ PA to PD PMU, RUIDP, Jaipur.
2. SE PIU, Ajmer, Bikaner, Kota, Jaipur, Jodhpur and Udaipur.
3. Executive Engineer/APO's, IPIU, RUSDIP (Concerned), Alwar, Baran-Chhabra, Barmer, Bharatpur, Bundi, Chittorgarh, Churu, Dhaulpur, Jaisalmer, Jhalawar-Jhalarampattan, Karauli, Nagaur, Rajsamand, Sawai Madhopur and Sikar
4. Team Leader PMC/ Team Leader CTA Consultant, RUSDIP.
5. Team Leader, RUSDIP, DSC-I, Bharatpur, DSC-II, Nagaur, DSC-III, Jhalawar, RUSDIP.
6. Dy. Team Leader, RUSDIP, DSC-I, Alwar/ Dholpur/ Karauli/ Sawai Madhopur, RUSDIP.
7. Dy. Team Leader, RUSDIP, DSC-II, Churu/ Jaisalmer/ Barmer/ Sikar
8. Dy. Team Leader, RUSDIP, DSC-III, Chittorgarh/ / Rajsamand/ Bundi/ Baran, RUSDIP.
9. ACP, PMU, RUIDP, Jaipur to send by e-mail and put up the standard bidding documents on the website.

  
Dy. Project Director (T)

**BILL OF QUANTITIES**

**1.0 General**

- 1.1 The Contractor shall be deemed to have read and examined the Tender Documents before quoting the rates of all items in the Bill of Quantities and the Schedule of Rates. The Drawings, Specifications, Schedules etc. are to be considered as explanatory of each other and no advantage shall be taken of any omission in tender documents.
- 1.2 The Contractor shall be deemed to be fully conversant with and to have made full allowance in his Tender for the site conditions, the nature and complexity of the work to be undertaken, the other extensive development and construction work currently being or which may be executed on and around the Site and all changes in the nature and condition of the Site from that existing at the time of Tender.
- 1.3 General directions and descriptions of scope of work and materials given in the Specification or shown on the Drawings are not necessarily repeated in the Bill of Quantities and reference is to be made to the Specification and the Drawings for this information.
- 1.4 The Bill of Quantities is an estimate of the quantities of work involved and is to be used as a basis for pricing of the Tender and for valuation of the work executed, in conjunction with instructions to Bidders, Terms and Conditions of Contract, General/ Special and Technical specifications and Drawings.
- 1.5 Due to the nature of the work, all quantities shown in the Bill of Quantities are approximate only and may be subject to variation. The quantities shown should not be considered as limiting or extending the amount of work to be done and material to be supplied by the Contractor. The contractor shall ascertain the actual quantities of materials required before placing orders. The payment for actual quantity used at site shall only be made. No payment for wastage or surplus quantity brought at site shall be made to contractor.
- 1.6 The rates quoted in the schedule shall be the all inclusive value for the work described and be deemed to include for all the Contractor's liabilities and obligations and all risks set forth or implied in the document and all matters and things necessary for the proper construction, of the Works including surveying, setting out, plant, labour, supervisor, materials, erection, maintenance, insurance, profit, taxes and duties together with all general risks liabilities and obligations set out or implied in the Contract. The Charge for any obligation of the Contractor for which apparently no corresponding item is given in the Bills of Quantities shall be deemed to be included in the Contract Rates and Prices entered against the billed items.
- 1.7 Quantities given in the annexed Bill of Quantities for the various items are approximate only and are given to provide a common basis for tendering. The basis of payment will be the actual quantities of work done, as measured by the Engineer and valued at the rates or prices quoted in the Bills of Quantities where applicable, and otherwise at such rates for prices as may be fixed within the terms of the contract. Variations in the quantities of work in the Schedule shall not vitiate the contract.
- 1.8 Extra items of work shall not vitiate the Contract. The Contractor shall be bound to execute extra items of work as directed by the Project Manger. The rates for extra items will be as per rates decided under Contract Conditions



- 1.9 It is to be expressly understood that the measured work is to be taken net (not withstanding any system or practice to the contrary) according to the actual quantities wherein finished according to the Drawings or as may be ordered from time to time by the Project Manger and the cost calculated at the respective prices, without any additional charges for any necessary or contingent works connected therewith. The rates quoted are for works in-situ and complete in every respect. Unless the Bill of Quantities specially indicates to the Contrary, the constructional plant and temporary works will not be measured.

Unless otherwise stated, all items are measured net and no allowance will be made for wastage, working space, bulking or shrinkage, overlaps and the like.

All works shall be carried out strictly as per BIS (with latest revision) and standard specifications (amended from time to time) and if not specified, the works shall be carried out as per the directions of the Project Manger.

The method of measurement of completed works for payment shall generally be in accordance with the relevant Indian Standard Specifications. IS: 1200 – 1979 for Method of Measurement of Building and Civil Engineering Works (Part I to XVI). Laying of Water and Sewer Lines Including Appurtenant Items (Third Revision) and Part XIX-1981 for Water Supply, Plumbing and Drains (Third Revision) unless described otherwise in the following clauses.

The unit rate should be entered against each item in the Bill of Quantities and shall be written in ink both in figures and words. Any item price left blank will be deemed to be included for elsewhere in the Bill of Quantities or the Schedule and hence the rate for that item will be taken as NIL.

- 1.14 In case any discrepancy is found between the quoted rates and the amounts, the rates will be considered as correct. In case any discrepancy is found between figures and words quoted for rates, then the rates quoted in words will be taken as correct. The rate column should be filled in figures and words legibly while the amount column should be filled in figures legibly.

In view of the site location and their prevailing condition, it is mandatory to the Contractor to visit the site and make himself thoroughly familiar with the site conditions, access and account for all possible difficulties and other requirements mentioned elsewhere in his bid prior to submission. When a contractor submits his bid for this work, it will be considered that he has quoted for this work with full and complete knowledge of the site and prevailing conditions, and no claim for additional compensation shall be entertained on this account.

All works such as obtaining necessary permissions, supply connections, etc. relating to establishing of electric supply, water supply from the related agencies to all the units constructed under this contract are required to be carried out by the Contractor.

In the Bill of Quantities "Specification", 'Clause' and 'Table' refer to the Technical Specifications. These specifications shall be treated as integral part of the Bill of Quantities. "Drawings" refers to the Contract Drawings as described in the conditions of Contract and elsewhere in the Tender Documents.

Rates for all items of works shall be inclusive of all lead and lifts unless otherwise specified.

The Contractor has to set up a field laboratory for quality control of his works

and a site office for the Engineer as per the details given in the particular conditions of Contract. The maintenance cost will not be paid separately, but will be incidental to the Contract. The cost of setting up the field laboratory will be paid as per BOQ. The site office is to be provided by the contractor and if there is no separate BOQ item for it in the contract, then it will be deemed to be incidental to the Contract.

- 1.20 The Contractor shall carry out all field tests, inspection of materials at site, tests for leakage and commissioning, required for quality assurance and quantity control for successful completion/commissioning of the plants/works, for which no extra payment will be made.

The Third Party Inspection Charges will be reimbursed to the contractor from the provisional sum in the contract. A handling fee of 5% (Five percent) of provisional sum (Paid) shall be payable to the Contractor on the actual cost of any approved expenditures under as Provisional Sum items.

In the absence of any stipulation to the contrary, rates quoted for different items of works are for completing the works to the specifications including full compensation for all those operations detailed in the relevant section of the specifications under 'rates'.

The rates quoted are to be considered as the full inclusive rate for the finished work, covering all labour, material, royalties, lease, wastage, plant equipment, overhead charges and profit etc.

Mode of measurements shall be as per provisions contained in the relevant clauses of the specification unless otherwise specified.

The rates includes the element of hire charges of all types of plants, machinery and equipment required as specified in Bill of Quantities to complete the work unless otherwise specified. The rates include all cleaning operations.

The make and specifications of the electrical/mechanical/ instrumentation machinery/ equipments has to be approved by the Project Manger prior to the supply of the machinery/ equipments.

The As-Built drawings have to be submitted by the contractor as per the work plan and no extra cost will be paid.

## **2.0 Civil Structures and Associated Works**

### **2.1 Earthworks - Excavation**

- 2.1.1 Separate items are provided for excavation for site works and for excavation for structures. The unit of measurement shall be cubic meters.
- 2.1.2 The unit of measurement for excavation shall be in cubic meters for the specified width. The depth of the excavation shall be measured at every 30 m and the average of the two shall be considered for payment within that section as per the rate quoted in Bill of quantity. No extra payment shall be made for the excavation done for extra width and depth.
- 2.1.3 The rate for excavation shall include extra excavation for socket ,charges for shoring, strutting, bailing and pumping out water whenever necessary, supports for underground services back filling, disposal of surplus earth, watch and ward and protective barricade and danger light etc. where required and no extra payment shall be made for any of these contingent works.

## **2.2 Dismantling:**

2.2.1 Any salvage material recovered from demolition shall be the property of the contractor. The rates for the demolishing work shall be quoted accordingly.

## **2.3 Disposal of Surplus Earth/ Salvage Materials**

2.3.1 Disposal of surplus earth will be done at any suitable place within a lead of \_\_\_\_\_ (mentioning the lead taken in the bid document) identified by the contractor in consultation with the Project Manger.

2.3.2 In absence of identified suitable place/s the contractor will be required to dispose off the surplus earth at appropriate place but no extra lead shall be paid by the RUIDP.

## **3.0 Concrete**

3.1 The unit of measurement for concrete where measured separately shall be in cubic meter. The rates for concrete in structures such as anchor/thrust block, nalla crossing shall include all works as described in Bill of quantities and specifications.

## **4.0 Steel Reinforcement**

4.1 The steel should be procured from the original billet manufacturer and rates of steel should be quoted accordingly. For the important structures like Bridges, Water retaining structures, Sewage treatment plants, etc., the steel shall be from the original billet manufacturer. In other types of structures, if the contractor is not able to supply from the original billet manufacturer, then the firm can supply material from the manufacturers drawing steel from the billets after approval and ensuring by the Project Manger that the firm is supplying the TMT bars from the billets for which a deduction of Rs. 2/- per kg from the quoted rates will be made.

The rates for steel reinforcement for structures shall include all works at various levels including foundation and superstructure and should be measured in kg.

## **5.0 Cement**

5.1 The Ordinary Portland Cement (OPC) should be used and rates should be quoted accordingly. OPC shall be used for all the important structures like Bridges, Water retaining structures, WTP, Sewage treatment plants, Framed structures,. However in other works, if the contractor is not able to procure OPC then the contractor can use PPC after approval and ensuring quality by the Project Manger for which a deduction of Rs. 20/- per bag consumption will be made from the concerned item quoted rates.

## **6.0 Brick and Stone Masonry**

6.1 Bricks required for masonry shall be approved by Project Manger and shall be as per the standard specifications and Natural stone required for stone masonry shall only be obtained from approved Quarry. The rates for this work shall include all lead and lift of foundation and superstructures.

## **7.0 Finishes**

7.1 The unit of measurement for finishes shall be square meters. The area to be considered for payment shall be the finished area shown on the Drawings or as measured at site. Separate items are provided for each item of work.



## **Pipelines**

- 8.1 The unit of measurement for pipeline measured in linear meters correct to a cm. The specials shall be measured separately. The length of pipelines shall be measured along the centerline of the pipeline between termination points and shall exclude lengths of fittings, specials and valves.

## **Approach to Work Sites**

- 9.1 Constructing suitable access routes for conveniently transporting construction materials and excavated material, for which no payment will be made.
- 9.2 Suitable barricading shall be erected along the periphery of the site immediately after the award of work and maintain it during execution of the work till handing over the site to the Client. The barricading should be sufficiently strong to prevent falling of any material on the densely populated area, located down the hill, besides protection to the site personnel and labour working at the site.

## **.0 Safety**

- 10.1 The safety requirements stipulated in the IS Codes and the contract agreement should be fully complied with, before and during execution of any component of the work. The following IS Codes should be referred for safety during construction - IS 3764 : 1992 Excavation work – Code of Safety; IS 4081 : 1986 Blasting and Related Drilling Operations; IS 7969 : 1975 Handling and Storage of Building Materials and IS 7293 : 1974 Working with Construction Machinery.
- 10.2 It should be ensured that the barricading has been carried out properly; all safety measures have to be carried out by the contractor in accordance to the requirements for safe execution of the work; display boards for diversion, warning, work in progress, schedule of completion of activity in the area are displayed at required places; proper lighting arrangement at work sites are made during night for convenience & safety of the public; tight fitting clothes or uniforms, helmets, hand gloves, protective footwear and eye goggles for workers at site and other adequate safety measures are properly attended at the site.

## **.0 Flow Diversion**

- 11.1 The contractor shall make all necessary arrangements for diversion of flow required during execution of work and no extra payment; shall be made for the same.
- 11.2 If water is met within the excavation, due to springs, seepage, rain or other causes, it shall be removed by suitable diversion, pumping or bailing out and the excavation is kept dry whenever so required or directed by the Project Manger. Care shall be taken to discharge the drained water into suitable outlet as not to cause damage to the works, crops or any other property. Due to any negligence on the part of the Contractor, if any such damage is caused, it shall be the sole responsibility of the Contractor to repair/restore to the original condition at his own cost or compensate for the damage. Sumps made for dewatering must be kept clear of the excavation / trenches required for further work. Method of pumping shall be approved by Project Manger, but in any case, the pumping arrangement shall be such that there shall be no movement of subsoil or; blowing in due to differential head of water during pumping. Pumping arrangements shall be adequate to ensure no delays in construction.

- 11.3 All excavations shall be kept free of water. Grading in the vicinity of excavations shall be controlled to prevent surface water running into excavated areas.
- 11.4 Unless separately provided for in the Bill of quantities, dewatering is deemed to have been included in the unit rates quoted for excavation. If separately provided for, the unit of measurement shall be as indicated in the Bill of quantities."

## **12.0 Fittings**

- 12.1. Fittings such as bends, tees, tapers, bell mouths, gap pieces and the like on pipe work within chambers and thrust blocks shall be measured as separate item and in actual weight, which if exceeds the theoretical weight, the theoretical weight shall be considered for payment.
- 12.2. The rates for pipe and fittings shall include for all plant, materials and labour necessary to install the pipe work at any depth in the locations shown on the Drawings or as otherwise instructed in accordance with the Specification and shall also include for pipes of any material, all installation and short lengths of pipe, couplings, adapters, puddle flanges, blank flanges, distance indicators and final painting.
- 12.3. Valves shall be measured separately by number. Separate items are provided for each type of valve.
- 12.4. The rates for valves shall include for all additional plant, materials and labour necessary for the satisfactory installation and testing of the valves in accordance with the Specification at any location and at any depth. The valve chambers shall be measured in numbers built as per drawings and specifications.
- 12.5. The rate for interconnection shall include all fittings, jointing materials, excavation, dewatering, and isolation and re-commissioning of pipeline and shall be measured in numbers.

## **GENERAL**

**13.0** For all bituminous works, bitumen of penetration grade of 60/70 shall be used unless otherwise specified in the item of Bill of Quantities.

**14.0** Some works are likely to be got executed by the state agencies required for completion of the work, like-

- Overhead and underground (if any) Electricity lines belonging to VVNL-Vidyut Vitran Nigam Limited ((formerly) Rajasthan State Electricity Board) and telephone cables belonging to BSNL.
- Water supply lines belonging to PHED.

The necessary amounts may be required to be deposited to these agencies from the Provisional Sum in the contract. The contractor has to pay to VVNL an amount as prescribed by VVNL, after approval of the Project Manger, as cost on the work and/or supervision charges of VVNL for the electricity line shifting. After approval of the Project manger, the amount will be reimbursed with the actual amount deposited from the Provisional Sum and a handling fee of 5% (Five percent) of provisional sum (Paid) shall be payable to the Contractor on the actual cost of any approved expenditures under as Provisional Sum items.

**15.0** All utility shifting and protective work shall be carried out only with the approval of the Project Manger as per specification and under the strict

supervision of the concerned Department/ agency. For this purpose, the Contractor shall be in constant touch with the agencies.

- 16.0** The serviceable materials, recovered while shifting of utilities as ascertained by the Project Manger, shall be deposited at designated store yards or as directed by the Project Manger. No payment shall be made to the Contractor in this; regard.
- 17.0** The rates and prices in the bill of quantities shall include for all taxes and duties levied according to the laws and regulation on Government of Rajasthan and Government of India.
- 18.0** Unless stated otherwise, all rates and prices entered in the Bill of Quantities shall be deemed to include the following.
- (a) Labour and all costs in connection with the execution and maintenance of the work.
  - (b) The supply of the materials, goods, storage and all costs in connection therewith including wastage, shrinkage and delivery to site.
  - (c) Plant, Equipment and all costs in connection therewith.
  - (d) Sampling and testing materials and goods, testing workmanship, providing, storing, packing and transporting samples to and from the place of testing.
  - (e) Fixing, erecting, installing or placing of materials and goods in position.
  - (f) Excavating in wet soil including necessary dewatering.
  - (g) Disposal of surplus and unsuitable materials and goods and excavated material, at a suitable location.
  - (h) All Temporary works.
  - (i) Construction and maintenance of temporary access roads within the site and of any roads required for access to any part of the site for the purpose of carrying out the works, taking into account t that the access roads under the contractor's maintenance control will also be used by the Employer and his staff's vehicles.
  - (j) Construction, maintenance and removal, if required, of temporary site drainage on the site, and for ensuring that all drains are kept clears of debris and blockage at all items.
  - (k) All general obligations, liabilities and risks involved in the execution and maintenance of the work set forth or reasonably implied in the document on which the Tender is based.
  - (l) Establishment charge, overheads and profits.
  - (m) Co-operating with other contractors.
  - (n) The prices for transportation included in any of the items in the Bill of Quantities are to include for all labour and equipment required for unpacking, loading, conveying, unloading, storing and multiple handling of all and every items to be transported.

