



Government of India
Department of Atomic Energy
NUCLEAR FUEL COMPLEX
UTILITIES

ECIL (PO)
HYDERABAD - 500 062

NOTICE INVITING TENDER

(TENDER NOTICE No: **NFC/UTLS/FHL/Phase3&4/01/2018**)

1. Item rate tenders are invited on behalf of the President of India by Sr.DGM, Utilities, Nuclear Fuel Complex, ECIL (PO) Hyderabad - 500 062 from approved and eligible contractors of DAE and those of appropriate list of CPWD, Department of Telecommunications, MES, Railways and A.P. State P.W.D for the work of:

Name of work, Estimated cost & other details.

"Supply, fabrication and laying of fire hydrant water supply pipe lines & valves in place of old damaged pipe lines & valves at NFC, Hyderabad".

- 1.1. **The work is estimated to cost: Rs. 1,60,00,000/-** (Rupees one crore sixty lakhs only) This estimate however is given merely as a rough guide.
- 1.2. **Earnest Money Deposit : Rs.3,20,000/-** (Rupees three lakhs twenty thousand only)
EMD in the form of Fixed Deposit Receipt / crossed demand draft drawn in favour of "Pay and Accounts Officer, NFC" payable at Hyderabad shall be submitted. Offers without EMD will be summarily rejected.
Name & A/C No. of the contractor may be written at the back side of DD submitted towards EMD and the DD to be submitted shall be drawn after the date of release of NIT to ensure that it is valid for the entire offer period.
2. **Time of completion for the work :** The time allowed for carrying out the work will be **10 (TEN) calendar months to be reckoned from the 15th day after** date of written orders to commence the work, in accordance with the phasing, if any, indicated in tender documents. **The period includes the monsoon period. The site is readily available.**
3. **Cost of tender document : Rs 1000/-** (rupees one thousand only) (Demand draft or banker's cheque payable at Hyderabad drawn in favour of "Pay & Accounts Officer, NFC")
4. **Receiving application from parties for issuing tender document:**
From : 30/04/2019 to 08/05/2019 upto 1600hrs
[Tender document will be issued after scrutiny of credentials of eligibility criteria]
5. **Issue of tender document :** From : 10/05/2019 to 18/05/2019 upto 1600hrs.
6. **Last date for submission of tender :** On 25/05/2019 up to 14.00 hours.
7. **Date of opening the sealed tenders :** On 25/05/2019 at 14.30 hours.
8. **Date of Pre-Bid Meeting:** Not Applicable.
9. Notice Inviting Tender and Detailed NIT are available for free view on www.nfc.gov.in.

10. Quotations are to be submitted strictly in the format enclosed. Tender and EMD shall be placed in two separate envelopes clearly indicating tender No. and each marked as TENDER & EMD respectively. Both the envelopes shall be submitted together in another sealed envelope superscribing Tender No. & description of work along with due date and time of submission on the outer cover.

Criteria of eligibility for issue of tender documents

Application along with the following documents for issue of tender documents will be received by Sr.DGM, Utilities, Nuclear Fuel Complex, ECIL (PO), Hyderabad, office phone no. 27184366 between 10.00 hrs to 16.00 hrs as per the dates mentioned above.

- Proof of appropriate class of registration in other units like CPWD, Dept. of Telecommunication, MES, Railways & TS state PWD etc. if any, and/ or having an experience in execution of similar nature of work.
- Work orders and Performance/ completion certificates issued by respective department engineers for any of the following during the last 7(seven) years ending on the last day of the month previous to the one in which the tenders are invited.
 1. One similar work completed costing not less than 80% of Estimated cost, or
 2. Two similar works completed costing not less than 60% of Estimated cost, or
 3. Three similar works completed costing not less than 40% of estimated cost. Attested copies of experience certificates as proof of evidence are to be submitted.
- Bidder should have executed and successfully completed similar works* during the last seven years prior to the tender due date.*similar works is defined below.
- ***Similar works means fabrication, laying, erection, of utilities services pipelines.**
- Bidder shall furnish the copy of experience giving work orders and completion certificates along with offer for similar nature of work as mentioned. The completion certificates shall have details like work order number/date, brief scope of work, ordered and executed value of the job, completion date, certificate date etc. Certificates from the end user, owner or consultant of the owner shall be provided.
- **Turn over** : Average annual financial turn over on similar works should be at least 100% of the estimated cost i.e., Rs.1,60,00,000/- during the immediate last three consecutive financial years. They should not have incurred any loss in more than two years during last five years period ending with 31.03.2018. The turn over shall be certified from Chartered Accountant for last three years. *(Tax paid for the last 7(seven) years to be confirmed).*
- **Solvency** : Party should submit Solvency Certificate for 40 % of the estimated vale of the work i.e., Rs.64,00,000/- from any schedule bank support of financial standing. Certificate should have been obtained with in the last one year as on the date of tender opening.
- **Plant & machinery**: Contractor shall submit technical establishment profile of the company with details like equipment/machinery etc., available with company.

Technical Staff & Establishment: List of Technical Staff possessed by the contractor is to be indicated. The Requirement of Technical Establishment for the work to be deployed by the bidder is as per the table below. In addition, a safety supervisor should be deputed invariably to take care of safety of personnel working, for arranging safety PPE talks, for issuance of Personnel Protection Equipments (PPEs') etc.

Cost of work (Rs.Lakhs)	Qualification	Number	Experience (years)
1000-2000	PM – GE	1	10
	GE	1	5
	GE/DE	2	2/5
500-1000	GE	1	5
	GE/DE	2	2/5
150-500	GE	1	5
	GE /DE	1	2/5
Upto 150	GE/DE	1	2/5

- GE-Graduate Engineer: DE-Diploma Engineer. PM – Project Manager.

The period of absence of technical manpower will be charged and deducted from your bills as per schedule - F.

- Attested copies of ESI and EPF registration certificate for their employees.
- Attested Copies of PAN CARD and GST registration certificate.
- **Inspection of works done by Bidders:** The works indicated by the bidder will be randomly selected for inspection by the department for assessment of their quality of work, performance and their attitude during the contract, if required. Due weightage will be given for performance in qualifying in the bidder.
- Entire Tender document consists of detailed Notice Inviting Tender, Tender and contract, General rules and directions, Conditions of contract, Clauses of contract, safety code, model rules, contractor's labour regulations, performance of registers, special instructions to tenderers, performance of annexures' and performance security bank guarantee, sketches of cement godown & safety and standard specifications of NFC. Except detailed tender notice, this part of document is a standard document and specifications from Public Tender document. Preamble to schedule of quantities, Schedule- A to F illustrating Schedule of quantities, Material supplied by the Department, Land earmarked and tools and plants to be hired by contractor, Extra schedule for specific requirements/documents for work, percentage (%) of material component for clause 10(CC), Provisions applicable in clauses of contract and drawings.
- Tender document issued to the contractor is non-transferable.
- The delayed or late offers will be summarily rejected. Department will not be responsible for postal delays.

Your offers shall be deposited in tender box kept for the purpose at O/o -Sr.DGM(Utility), Nuclear Fuel Complex, ECIL-(PO), Hyd.062, on **25/05/2019** up to 14:00 hours.

Tenders will be opened at AAO-Works Section, III floor, Aadhaar Building, NFC. Late received tenders & tenders not accompanied by EMD shall not be considered.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site. The accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents.

Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc., will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

Contractor shall submit Police verification Certificate (PVC) of staff or labour to be engaged for the work to get entry pass for working personnel/staff. All stipulations and instructions given by Security personnel, CISF from time to time shall scrupulously be followed for entry, exit of men and materials and as also during execution of work for security purpose.

The rates quoted shall be inclusive of all material, men, equipment/ plant/ machinery required for satisfactory completion of the item in all respects and shall be inclusive of all taxes like GST, Labour cess, Seigniorage, IT etc., as applicable as on last date of submission of offer. EPF and ESI are exclusive and shall be reimbursed on proof of payment as per clause 19L of conditions of GCC.

Terms and Conditions of NIT No: NFC/UTLS/ELEC/FHL/Ph3&4/01/2018

1. Agreement shall be drawn with the successful tenderer on prescribed Form enclosed. Tenderer shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
2. All required materials/consumables, loading/unloading, transportation, safe custody etc. including required equipment such as welding machine and gas cutting set, tools & tackles etc. will be in the scope of tenderer.
3. The time allowed for carrying this contract is for a period of 10 (Ten) months to be reckoned from 15th day after the date of written order to commence the work in accordance with the phasing, if any, indicated in the tender documents.
4. The site for the work is available.
5. Tender documents consisting of plans, specifications, the schedule of quantities of the various clauses of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be purchased from the office of the Sr.DGM, Utilities, Nuclear Fuel Complex, Hyderabad between hours of 10.00 and 16.00 hrs every day except on Sundays and holidays or holidays declared by NFC. Applications with all credentials for issuance of tender documents will be received from **30/04/2019 to 08/05/2019** and subsequently tender documents will be issued to eligible contractors from this office during the hours specified above from **10/05/2019 to 18/05/2019** on payment of **Rs. 1000/-** (Rupees one thousand only) (non-refundable) by way of Bankers cheque, pay order, demand draft drawn in favour of Pay & Accounts Officer, NFC, Hyderabad.
6. The contractor will be completely responsible for the job. The contractor shall deploy sufficient man power required for completion of the work. The contractor shall ensure to authorize a competent person to supervise the job who shall fully be responsible for carrying out the jobs safely. Authorisation shall be furnished in writing. The contractor shall deploy only those qualified man power who have prior experience in the works as brought out in the scope of work.
7. No child labour should be engaged.
8. Contact labour are to be engaged only in General Shift.

9. The workers engaged by the contractor should wear uniform which is distinct from NFC uniform. Safety shoes and other PPE as required for the job are to be provided by the contractor for all the workers engaged by him and ensure its usage. The contractor has to ensure safe working practices and follow all safety rules and regulations stipulated by SED, NFC from time to time.

10. The Contractor must follow all Labour Laws such as Contractor (Regulation & Abolition Act), Payment of Wages Act, EPF & MP Act, ESI Act, Payment of Bonus Act, Employees Compensation Act etc. NFC reserves right to ask Contractor to furnish proofs /documentary evidence for following the above laws. Clarifications on statutory provisions if any, may be sought from Welfare Officer, NFC, Hyderabad on 040-27183059 or wo@nfc.gov.in on any working day during office hours.

11. Wages are to be paid as per Minimum Wages Act, notified by RLC (C) from time to time. Certificate from Officer-in-charge at NFC regarding payment of minimum wages to the contract labour is to be enclosed along with the claim

12. Earnest Money Deposit at the rate of 2% of estimated cost put to tender shall be submitted along with tender in the form of Fixed Deposit Receipt / crossed demand draft drawn in favour of "Pay and Accounts Officer, NFC" payable at Hyderabad. Offers without EMD will be summarily rejected.

13. The contractor shall produce necessary police verification certificates from the local police station for the manpower being engaged for the purpose.

14. Valid Medical fitness certificate from at least an MBBS doctor for the workers engaged shall be submitted. The contractor shall ensure that all his labour who are engaged in work are covered under ESI and EPF. Proof of the same shall be produced before start of the work.

15. The quoted value shall be exclusive of ESI, EPF, and inclusive of GST & any other mandatory duties and levies of the Government. The Payment towards ESI, EPF will be released against submission of documentary evidence towards payment of ESI, EPF to the concerned authorities.

16. The contractor shall provide the registration details of Income Tax, ESI, EPF and GST etc. while collecting tender document and copies of the same shall be submitted along with tender document.

17. Performance Guarantee @5% of Work Order value shall be submitted within 15 days from the date of issue of letter of acceptance or before the commencement of work which ever is earlier in the form of Fixed Deposit Receipt or Demand Draft or Bank Guarantee. In case a Bank guarantee is submitted it should be valid for 12 months (stipulated period of contract plus 60 days beyond that) from the date of issue of work order along with an additional claim period of six(6) months. (Extension of time for submission of Performance guarantee at the request of contractor shall be charged @0.1% per day of performance guarantee amount).

18. In case of non-submission of Performance Guarantee within prescribed/extended time, the Earnest Money Deposit submitted will be forfeited.

19. Security Deposit @ 2.5% of the Work Order Value shall be recovered from Running Account bills. The Security Deposit amount recovered shall be released after Three (3) months from the date of completion of entire work, or after payment of final bill, whichever is later.

20. Income tax and GST as applicable at source shall be deducted from the payments made. Contractor shall furnish his PAN No. and bank details along with a xerox copy of the same duly countersigned by him. Non-submission of PAN or incorrect PAN No. attracts Income tax @ 20% on the gross bill.

21. Payment for the work done by the contractor shall be made based on the work done by contractor which was accepted and measured by the Officer in charge, duly approved by the Competent authority. (Once in every quarter i.e. after the end of the quarter, from the date of work started). Bills to be submitted by the firm in triplicate along with the proof of payment of minimum wages and ESI/EPF.
22. Offers received will be evaluated based on the total cost quoted exclusive of EPF, ESI and inclusive of GST etc.
23. The offer should be kept valid for a period of three months from the date of opening of tender.
24. Incomplete and conditional tenders shall be rejected. However unconditional rebates are acceptable.
25. Contractors shall quote the rates both in words and figures.
26. In case there is a variation between the rates in figures and words, the rate which corresponds to amount worked out by the contractor shall be taken as correct.
27. When the amount of an item is not worked out by the contractor, or if it does not correspond with the rates written either in figures or in words, then the rate quoted by the contractor in words shall be taken as correct.
28. When the rate quoted by the contractor, in figures and in words tallies, but the amount is not worked out correctly, the rate quoted by the contractor shall be taken as correct and not the amount.
29. Contractor shall sign each page of the tender document along with the Schedule of quantities & Rates.
30. In case the contractor fails to commence the work specified in the tender document within the prescribed time schedule, then the Government shall without prejudice to any other right or remedy be at liberty to forfeit whole EMD absolutely.
31. The contractor shall ensure that labour deployed for the contract would confine themselves to their respective places of work and not indulge in activities that would be harmful to NFC. The contract labour shall be/below 60 years for Skilled, shall be/below 50 years for Un-skilled, shall be/below 65 years for Highly skilled categories.
32. NFC reserves right to accept or reject any quotation, either completely or partly, without giving any reasons.
33. If on acceptance of the tender, owing to the circumstances if the scope of the work remains altered, reduced or abandoned for any reason NFC shall give a notice in writing to that effect to the contractor who shall act accordingly. Also, if the workmanship is not satisfactory, the contract shall be cancelled.
34. Before quoting, the contractor may visit NFC for assessment of work with prior permission of Sr.DGM. He may contact Sri. H.S.Verma, DM-Utls-M(Elec) (040-27183214) or Sri. G.Ashok Kumar, SO/C, Utilities-M (040-27183191).
35. If the contractor fails to execute the work completely, then the Government shall without prejudice to any other right or remedy be at liberty to forfeit whole Security Deposit and Performance Bank Guarantee absolutely.
36. The quoted rates shall not be less than the minimum wage fixed/notified by the state government - where the service is performed and shall include all statutory obligations. However bids without any element of cost over and above such minimum wages (or below it) shall be treated as "Nil" price quotation and would be rejected. The contractor shall be liable

for all kinds of dues payable in respect of all personnel provided under the contract and NFC shall not be liable for any dues for availing the services of the personnel.

The contractor should ensure that persons to be deployed are not alcoholic, drug addict and not indulge in any activity prejudicial to the interest of NFC. The contractor shall ensure to get the Police Verification for all the manpower deployed by them and the contractor should ensure that the manpower deputed should bear good moral character.

37. Welding supervisor shall have qualification such as engineering degree or diploma in welding technology /Mechanical engineering with adequate knowledge of non-destructive testing and minimum of three(3) years of experience in supervising welding of pipe joints. Welders deployed for the work shall have welding qualification. “ Welder performance qualification will be carried out as per ASME Sec IX”.

38. The successful tenderer should start the work immediately after the receipt of work order.

39. The description of the work is as follows:

" Supply, fabrication and laying of fire hydrant water supply pipe lines & valves in place of old damaged lines & valves, new pipes transporting to a proper location, dismantling of corroded pipes for further disposal. The tools such as gas cutter set, gas cylinders, welding machine, welding rods, PPE, vehicle like Hydra/crane for transporting pipe scrap to the designated place etc including manpower are in the scope of contractor."

The tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tender as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site. The accommodation they may require and in general shall themselves obtain all necessary information as to risks contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or other wise shall be allowed. The tenderer shall be responsible for transporting of material/ equipment/ tools etc. at his own cost which includes all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tender implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates

40. The competent authority on behalf of the President of India does not bind himself to accept the lowest or any other tender and reserves to himself the authority to reject any or all of the tenders received without the assignment of a reason. All tenders in which any of the prescribed conditions are not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.

41. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

42. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.

43. The contractor shall not be permitted to tender for works in NFC (responsible for award and execution of contracts) in which his near relative is posted as Assistant Accounts Officer or as an Officer in any capacity between the grades of Chief Engineer and Assistant Engineer (both inclusive). He shall also intimate the name of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in NFC or in the DAE. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this department.

44.No engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of two years after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who has not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractors service.

45.This Notice Inviting Tender (NIT) shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work sign the contract consisting of : The notice inviting tender, all the documents including tender of contract, General rules & directions, clauses of contract, proforma of schedule, safety code, model rules, contractors labour regulations, proforma of registers, special instructions to tenderers, specifications and drawings, if any forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

46.The tender for the work shall remain open for acceptance for a period of 90(ninety) days from the date of opening of tenders. If any tenderer with draws his tender before the said period or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liability to forfeit 50% of the said earnest money as aforesaid.

47.The rates quoted by the contractor should be valid up to 18 months from the date of issue of the work order.

Safety clauses

1. Valid medical fitness certificate from at least an MBBS doctor for the workers engaged shall be submitted. And valid height pass (From NFC) of the labour shall be arranged if required .
2. Uniform, Safety shoes Helmet, gloves , face mask and all necessary other PPEs as required for the job are to be provided by the contractor for all the workers engaged by him and ensure its usage during the entire working time / period .
3. The contractor has to ensure safe working practices and follow all safety rules and regulations stipulated by Safety Engineering Division (SED), NFC and plant in charges from time to time.
4. The contractor shall ensure that labour deployed for the contract would confine themselves to their respective places of work and not indulge in activities that would be harmful to NFC.
5. If any of the safety instructions are violated by the labour , NFC reserves the right to short close the contract.
6. Work shall be done in **General shift** on working days. The estimated duration of the work is ten(10) months.

Penalty clause for non-compliance/ deviation of the conditions of the contract:

Safety compliance : To be followed by all contract workmen and Supervisor

- a. All contract workers should always wear PPE's like safety shoes, ear plug and nose mask etc.
- b. Attend safety Training
- c. Always wear Uniform
- d. Should restrict themselves to concerned area only.
- e. Follow work - specific do's and don'ts given by EIC

Any deviation of the above by any of the contact work men /Supervisor will attract the following penalty.

Safety -Non compliance	Penalty
Once/month	Oral warning
Twice /month	0.50% of the monthly bill
2-5 /month	2.0 % of the monthly bill
> 5/month	10.0% of the monthly bill
> 8/month	Short closing of order

11. Contractor shall quote unit rates of items in blank schedule including GST and excluding ESI & EPF. ESI & EPF shall be reimbursed to the contractor on production of documentary evidence.

Contractor has to take appropriate ESI & EPF for the engaged labors.

Contractor shall submit the proof of certificates duly attested by the gazetted officer (Central/State government)

(Binay Kumar)

Sr.DGM-Utilities.

For & On behalf of the President of India

 Note: NFC is committed to a corruption free work environment. "All the purchase and contracts commitments of NFC will be honoured without the citizen having to pay any bribe". "In case any person demands any bribe, it is the duty of a responsible citizen to inform the matter to the Vigilance Officer, NFC, Hyderabad". Telephone No. 040-27122181 & 040-27184314 (Office) and 040-27137012 (Residence). Email: vo@nfc.gov.in.

TENDER

From: _____

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To
Sr.DGM, Utilities
Nuclear Fuel Complex,
ECIL(PO)
Hyderabad-500062.

QUOTATION

Sub: Supply, fabrication, & laying of fire hydrant water supply lines & valves in place of old damaged pipelines & valves at NFC....reg.

Reference no: TENDER NOTICE No: NFC/UTLS/FHL/Phase3&4/01/2018.

Dear sir,

In response to your Notice Inviting Tenders, we hereby submit our quotation for carrying out the following works.

Schedule of quantities. / Schedule "A"

S.NO	Description of work	Unit	Qty	Unit Rate (in figure & words)	Total Amount (Rs.)
1	<p>Supplying, fabricating erecting/fixing in position either inside plant building/ in yard, at all elevations generally as indicated in the relevant drawings, using MS Carbon steel seamless pipes conforming to ASTM A 106 Gr.B & Dimensions conforming to ANSI B 36.10 Schedule-40 (Make M/S Jindal, Tata/MSL) and other suitable fittings/sockets/MS flanges confirming to BS table - 10E /IS:6392/ANSI B16.5, 150 lbs with 3mm thick neoprene gaskets of suitable grade, fastened using suitable bolt, nut and washers, as directed by Engineer-In-Charge. Piping to be supported with suitable clamps on MS structural frame work. Testing at required test pressure, flushing and commissioning including cost of all consumables, labour, etc., complete as directed. Hydro test shall be carried out by the contractor at 14Kg/cm². Pipe material shall be tested at MSME lab by the contractor and shall produce valid certificates & material test certificate (MTC's) from manufacturer. Painting: Surface preparation by manual means-scraping with steel brushes, emery paper, cleaning with cloth and applying two coats of Synthetic enamel paint of required shade over one coat of synthetic zinc chromate primer including cost of paint(Make: ASIAN/ BERGER,), labour, tools and tackles.</p>				
	(a) 100mm NB	R/mtr	30		
	(b) 150mm NB	R/mtr	1500		
	(c) 200mm NB	R/mtr	350		
	(d) 250mm NB	R/mtr	170		

2	<p>Wrap coating for buried pipelines: Coating and wrapping of the pipe lines (including fittings) consisting of one coat each of coal tar primer , cold wrap of impregnated fibre glass, of suitable width and with minimum 4 mm thick, of PIPEKOTE or Rustfree make, including thermofusioning of polyethelene layer of coat using thermo torch, seal coating, overlapping not less than 25 mm, including cleaning pipes etc., complete as directed by Engineer-In-Charge and specified</p>				
	(a) 150mm NB	R/mtr	100		
	(b) 200mm NB	R/mtr	50		
3	<p>Providing and fixing valves of different varities conforming to relevant standards along with matching companion flanges with suitable bolts nuts, washers, neoprene gasket of 3 mm thick, fixing of flanges to pipe, aligning, testing, painting with Zinc Chromate primer and two coats of Synthetic Enamel paint of Make: ASIAN & BERGER complete as directed by Engineer-In-Charge. Cast steel Gate valve, flange ends 150lbs ,Class 150 ,STD API 600/6D,ASME B 16.34, TESTING STD BS-6755 PART 1, Bolted bonnet, OS & Y type , Graphite special gland packing ends flanged ANSI B 16.5, nominal pressure of 1.6 PN. Make: L&T,AUDCO,INTERVALVE,SAUNDERS,LEADER & STEEL STRONG.</p>				
	(a) 150mm NB	Nos.	9		
	(b) 200mm NB	Nos.	6		
	(a) 250mm NB	Nos.	2		

4	Removing of existing damaged/corroded , unserviceable M.S/ pipe lines by unscrewing or cutting transporting to the site shown as directed by Engineer in-charge. Note: pipeline will be cut into pieces and shifted to designated place for disposal within NFC.				
	(a) 100mm	per meter	30		
	(b) 150mm		1500		
	(c) 200mm		350		
(d) 250mm	170				
5	Excavation in Trenches in all soils except soft and hard rock upto depths mentioned below from average ground level dressing the base to the required levels including dewatering if necessary and back filling in trenches and plinth with approved excavated earth in layers not exceeding 250 mm levelling, watering and consolidating and disposing the surplus earth within a distance of 50 m complete as directed				
	a) up to 1.5m depth	Cu.m	225		
	b) 1.5 m to 3 m	Cu.m	14		
6	Cement concrete 1:4:8 using Portland Cement conforming to BIS 1489/8112 (M/s. ACC, Ultra Tech, Raasi, Birla, Coramandal, M/s. Andhra Cement Ltd., KCP), river sand and graded stone aggregates of 40 mm maximum size at and at all depths below plinth level including consolidation, finishing, curing, etc., complete but excluding form work as per specifications for mud mat of foundations, equipment foundations, pedestals, masonry walls, Trenches etc.	Cu.m	20		
7	Cement concrete 1:2:4 grade using Portland Cement conforming to BIS 1489/8112 (M/s.ACC,Ultra Tech, Raasi, Birla, Cormandal, M/s. Andhra Cement Ltd., KCP), river sand and graded stone aggregates of 20 mm maximum size at and at all depths below plinth level including consolidation, finishing smooth/broom finish as applicable, curing, etc., for pedestals but excluding form work as per specifications.	Cu.m	91		

8	Structural steel work with standard section like MS angles, flats, joists, channels, etc., at all levels below/above ground/ plinth level including supply the steel sections conforming to IS:2062 (vizag Steels/Tata/Sail) transporting, cutting, fabricating using welding/bolts, weld rods (D & H, Advani, Philips) and /or bolt and nuts from approved source, erecting and fixing in position using derricks/pullies or any other suitable means, etc., including painting with two coats of Enamel paint make, over one coat of approved red oxide zinc chromate primer/compatible primer of Asian Paint make approved shade, cleaning the sections by suitable means, etc., complete for pipe support horizontal and vertical trustles, brackets, etc., all as per specifications and as directed by the Engineer-in charge.	MT	6.3		
9	Dismantling/breaking the existing bituminous surfaces road carefully to the required size, including removing, solling, WMB road, stacking useful materials at the locations shown and disposing of debris with in a distance of 50 m etc., as specified and directed.	Cu.m	6		
10	Dismantling/breaking the existing plain cement concrete surfaces carefully in flooring, platforms etc. to the required size, using pneumatic cutters or any approved means including disposing of debris within a distance of 50 m etc., complete as specified and directed.	Cu.m	117		
11	Providing centering and shuttering using steel shuttering plates at all depths and heights below and above plinth level, vertical, horizontal, inclined including strutting, propping using steel pipes/across staging, removal, cleaning of the same for insitu reinforced cement concrete and in plain cement concrete work as required including chamfers, splays, keys, wedges, nails, bracings, brackets and applying one coat of shuttering oil and all shuttering surfaces coming in contact with concrete etc., complete as directed by Engineer in-charge .	Sq.m	713		
	a) Columns/Pedestals at all elevations using steel shuttering				

12	Lead charges, including loading, unloading, stacking, the disposable earth, by mechanical transport for lead exceeding 500meter but not exceeding 1KM.	Cu.m	140		
Total					
In words: (rupees)					
Note: The price quoted is exclusive of ESI, EPF and inclusive of GST components.					