// SCOPE OF WORK//

Name of Work: Civil and structural work for Elevator at TDI & SAC plant at Dahej

Nature of work to be executed in general:

The scope of work to be executed will include but not limited to the following:
TDI Dahej plants is desirous to provide two number 1.5 ton capacity passenger cum goods elevator at their TDI and SAC plant. The plant has technological structures of approximately 32 to 33 meter height with intermediate floors at various levels. Lifts are to be provided in these two plants to facilitate smooth movement of work force and goods for maintenance of equipments, valves pumps etc housed at different floor levels. Lifts to be provided are passenger cum goods lift. The tentative drawings for both the lifts are attached with the tender documents for your reference.

Civil and structural works for the lift duct for vertical movement of lift car broadly involves following activities for Lift size is approximately 3.0 mtr x 3.0 mtr x 33.0 mtr height

1) Excavation: All the excavation shall have to be done manually and disposal up to lead of 30 meter .
2) RCC for foundation and lift vertical structure up to full height . with required cut-out for door openings at various levels as per Drawings, including fixing of MS insert plates inside an outside for supporting structure, the work to be executed with plywood shuttering only and will remain exposed.
3) Required construction chemical of FOSROC/PIDILITE/Dr.Fixit or equivalent is to be used for better workability of concrete.
4) Shuttering and reinforcement for full height including required scaffolding.
5) Scaffolding for the Lift for execution of various activities involved in lift construction.
6) Brick work ,Inside outside plaster for full height of lift structure
7) Work for the machine room at about 30.0 mtr height and Lift pit (for depth up to 3.5 meter below NGL) to accommodate lifting machinery and Car Buffers respectively.
8) Connection of lift openings and various floors as per the drawing and as per actual site conditions.
9) During the construction of lift well, required staging, scaffolding, working platform, etc. shall be provided by contractor with no extra cost like manpower and material and idle charge for manpower, material and equipments shall not be paid extra.
10) **The contractor is requested to visit the site of the proposed work and understand the details of site Conditions and to ensure construction feasibility in given time frame, before the submission of offer. Kindly ensure to check the feasibility of stacking of construction material, lead for work during excavation, concreting, space availability for scaffolding and working etc.**

SPECIAL INSTRUCTIONS TO BIDDERS

Work is to be done in the operating plant of TDI and SAC of GNFC, at Dahej, which is critical from safety & hazards point of view.

a) Contractor shall have sufficient resources to complete both the work simultaneously in the same timeframe in parallel in allotted time schedule with utmost safety.
b) Due to space restriction and also to facilitate emergency services like movement of fire tender, ambulance services, excavated earth shall be removed on the same day. Construction material shall be stacked only at pres decided location which will away from the site. Rates shall be quoted considering the site restriction.
c) The contractor shall be fully accountable and responsible for the safety of all the equipments, cables, pipes etc in the vanity and surrounding. Any damage to these operating plants can be a serious threat to work force and serious accidents apart from chemical hazards .& other loss, damage to human life and property of their own or of GNFC. Even in-case-of-accident, caused, by their negligence, no compensation shall be paid, by the Company.
d) All safety equipments and precautions required for execution of jobs inside plant area, like safety helmets, safety belts, safety goggles, safety gloves, safety shoes BARRICADING the construction site with safety sign boards and ,if necessary sheet barricading etc. shall be provided and /Or kept available at site in adequate quantity so-that progress of work does not suffer for want of the same.
e) GNFC shall provide Escape MASK to escape from the area .
f) M/s GNFC may opt to execute the work for either both or single lift as per the safety condition prevailing on site, M/s GNFC can exclude or stop the work at any stage or abandon without siting any reasons for the same. Contractor will be paid only for the work executed by them.
g) The contractor shall take the work permits (cold/hot/height) as the case may be. The contractor shall observe all safety and security rules of GNFC. **Contractor shall have to arrange for safety engineer for both the work separately**. The contractor shall be required to work in close coordination with other agencies and various departments of GNFC. The proposed work is to be executed at two different locations in TDI-II GNFC plant, at Dahej.
h) **FEMALE LABOURS WILL NOT BE ALLOWED FOR THE EXECUTION OF THE WORK , looking to hazardous nature of plant operation.**
i) The scaffolding required during the execution of the work shall be made from mild steel pipes and clamps only. Scaffolding material will have to be arranged by the vendor. GNFC will not supply the material. The scaffolding may be required to be designed and certified by competent authority at no extra cost. The scaffolding work up to full height will be done in such a manner that it can be used for execution of work as well as inspection purpose till the completion of the work.
j) The quoted rates shall be inclusive of all taxes, duties applicable for such type of work including VAT. Service Tax including Education/Swachh Bharat CESS as

applicable shall be paid extra by GNFC at prevailing rates. GNFC shall make payment of service tax (including education CESS) as per changes in service tax rate structure as applicable from time to time or as per changes in type of tax in place of service tax. The contractor shall write Service Tax registration on all invoices. The contractor shall show Service Tax amount separately in all invoices. The GST as and when become effective and implemented, same will be applicable.

k) All safety equipments required for execution of jobs shall be used. Personal protective equipment (PPEs) like safety helmets, safety shoes, safety belts, safety goggles, safety gloves, shall be provided by contractor. In case of non use of PPEs and non compliance to safety requirement, GNFC may impose penalty as per GNFC's policy. Execution of work will be in presence of safety engineer only, any violation in safety norms shall be dealt seriously.

l) All rules regarding safety & security like tying of Safety Net/s where-ever required during construction as per recommendation of Safety Dept., wearing of ISI Make safety belts, safety helmet/s, safety shoes etc. shall be strictly followed during execution of the work. Any violation of these rules shall be considered as fault & viewed very seriously.

m) GNFC is committed to safety of all the persons working in-side the factory, including contractors / agencies / their supervisors / workers contractors/agents etc..Occupational health and safety policy of GNFC enclosed herewith, demonstrates GNFC's strong commitment to safety.

n) Regular safety training programs are arranged by GNFC and contractors/vendors are encouraged to participate and use the knowledge and experience of faculty. Corrective measures as penalty for non-compliance and eventual termination of contract followed by de-registration, as approved contractors/vendors are the consequences of repeated non-compliance and negligence. **Contractor shall produce the safety training certificates issued by GNFC for their work force, who have been imparted safety training while claiming the RA bills for all manpower involved. Bills without safety training certificate will not be recommended for payment.**

o) **Work shall be commenced on daily work permit basis. It is likely that contractor may not be given work permit for safety or other reasons for shift ,or days together. No extra payment shall be made to contractor on idling charge for man power or machineries. Work permit will be renewed in each shift on daily basis.**

Storage of construction materials:

i) The works under this contract are to be carried out in running plant conditions hence following care shall be taken while storing the construction materials.

ii) Material like sand, metal, bricks, concrete blocks steel etc. shall be required to be stored within specific boundary away from the site of work. The boundary around each stack shall be made re dominant material like bricks or blocks till the material is stacked

there. Once the material is consumed or required to be shifted, the boundary shall be removed.

iii) Material shall be so stacked that it will not obstruct the traffic around it as emergency vehicles & fire tender are frequently required to move around. The space / area of stacking the material shall be got approved by the EIC prior to its stacking

iv) **Manpower & Machinery:**
The contractor shall be required to maintain minimum following manpower for continuous & technical working at site. Additional manpower shall be deployed as per job requirement as & when needed.
A) **Site Engineer** : One in number. He should be qualified with minimum Diploma In Civil Engineering & should have sufficient experience of working in Industries and such works related height in operating plant, conversant with work permit system and hazards involved.
B) **Safety Engineer**: safety engineer, having industrial experience is required throughout the work, he will have to closely supervise the work exclusive from safety aspects of the work and man power working in the area for execution of the work.
C) **Supervisor :** One in number. They should be educated & literate & able to read the instructions in English. They should have experience of working in Industries.
D) **Machinery:** All Machinery like mixer Machine(Ajax type)winch, concrete lift/Pump/vibrators ,testing equipments etc necessary as per prescribed procedures.

v) Material receipt record will be maintained by contractor. Material challan of supplier/ authorized dealer shall be dully signed, stamped by security officer. Material challan will indicate name brand and quantity of each material. Only fresh material recently procured will be allowed to utilize. Contractor has to take the approval before its use.

vi) The contractor is required to carry out the assigned work as per company's Environment Policy, Quality Policy, OHSAS Policy and shall comply requirement of ISO 9001, ISO 14001 & OHSAS 18001 with respect to the assigned work. The contractor is also required to comply all applicable legislation as per ISO 9001, ISO 14001 & OHSAS 18001 in connection with execution of the assigned work.

vii) The contractor shall submit Two copies of delivery challans (duly stamped / signature of GNFC security) of materials used. The challans should be of the manufacture / register dealer. (ii) Proper account of materials brought verses actual consumption as per norms shall be furnished to Engg. – in – charge.
Contractor shall have to present the certificate of safety training taken by the working crews at GNFC along with each bill.
viii) In addition to the above mentioned conditions in the scope of work, there can be inclusion or deletion one or more conditions based on the site situation and conditions. Quoted Rates shall remain firm and fixed irrespective of any inclusion or deletion of such condition till completion of work. Decision of Site Engineer in any such matter shall be final. Contractor shall abide by all the instruction of Site engineer-In –charge.

ix) Various declarations are required to be given on non judicial stamp paper of RS.100 as indicated in the forms to be filled up by the bidders in their prequalification criteria. It is requested to give :

All the declaration required to be given on non judicial stamp paper of Rs.100, can be given on single stamp paper