

EXPRESSION OF INTEREST TO SET UP A MODERN PIG ABATTOIR IN DELHI

North Delhi Municipal Corporation intends to invite **Expression Of Interest** from suitable bidders to set up a modern pig abattoir with all ancillary units on a plot measuring 40076 sqm. in Rohini, Delhi on **Design, Build, Finance, Operate and Transfer** (DBFOT) basis to process approx 1000 pigs per shift to cater to the needs of city consumers.

BRIEF DESCRIPTION OF WORK

The pig abattoir is to be build on DBFOT basis (Design, build, finance, operate, transfer) by the selected bidder/developer:

(A)Design -The pig abattoir is to be designed completely by the selected bidders/developers/operators right from drawing the layout plan to installation of all machines in the abattoir. All mandatory NOC's in the entire course of execution from DPCC and other regulatory authorities shall be obtained by the selected bidder. However, NDMC shall facilitate & guide the process of obtaining NOC's.

(B)Build - The bidder/developer/operator shall be completely responsible for the construction of the pig abattoir with allied facilities. The developer shall be responsible for civil, mechanical, electrical & digital works and the Effluent treatment plant to abate pollution in the pig abattoir. A detailed project report (DPR) shall be prepared by the selected agency. It will conduct survey for assessment of the real time pork consumption data in the Delhi NCR Region with integration of their opportunities into a viable pig supply chain.

(C)Finance - Capital expenditure incurred during the entire course of construction & till it becomes functional shall be funded by the selected bidder/operator/developer. He may appoint consultant to supervise the designing, construction and installation of machinery etc to ensure execution of the work during the course of setting up the pig abattoir.

(D)Operate - The selected bidder/operator/developer can either operate the abattoir or can outsource the work of running the modern pig abattoir at its own to a competent and experienced agency under its direct supervision.

(E)Transfer - A contract shall be signed between the selected bidder/operator/developer and North DMC which shall specify time period during which he shall be whole sole in-charge of the pig abattoir. On the expiry of the contract, by the selected bidder/operator/developer he may get extension or shall have to transfer the pig abattoir to North DMC.

1. SCOPE OF WORK

- (i) Assessment of existing as well as future demand for hygienically produced pork in Delhi.
- (ii) To ensure humane and scientific slaughtering of pigs in a modern abattoir equipped with the state of art machinery.
- (iii) To ensure supply of hygienically produced wholesome pork with proper ante-mortem and post-mortem examination of the pigs and carcass respectively.
- (iv) To ensure scientific disposal of blood, offals, remains & waste by product of the slaughtered pigs which may otherwise be major pollutants & also create public health hazards being a source of numerous zoonotic diseases.
- (v) Inspection of the site proposed for establishment of pig abattoir from time to time as per the requirement of the project.
- (vi) Preparation and Submission of Interim Report, Final Detailed Project Report specifying following components:-
 - Preparation of Site Layout Plan and Drawings of following integral components :
 - Layout design of pig abattoir and pork processing plant.

- Pig Livestock Market including parking area.
- Lairage area
- Effluent Treatment plant
- Rendering plant
- Utility services
- Electricity substations
- Facilities for Storage of Waste
- Pork storage, chilling and freezing including blast freezing.
- Dispatch area
- Parking area
- Delivery system of pork
- Vehicle wash area
- All other facilities required for a modern pig abattoir and processing plant by the North DMC.

(vii) Assessment of the water requirement, its supply network & arrangement in different units and processing plant.

(viii) Assessment of requirements of underground and overhead water tanks, borewells etc.

(ix) Assessment of the work of Horticulture green belts, plantation.

(x) Preparation of detailed plan for execution of the work of establishment of Pig Abattoir and processing plant.

- Includes DPR.
- Eligibility criteria
- Detailed Terms & Conditions
- Scope of work including agreements
- Livestock Market and Basic Layout Design Specifications

(XI) Process, Specification and Quantity of:

- Civil construction work
- Electrical works
- Personnel Hygiene
- Plant & Machinery (Indian/Imported)
- Refrigerated Vans
- Effluent Treatment Plant (Liasoning & Getting approval from DPCC)
- Requirements of backup for electricity supply disruptions
- Horticulture work for greenery
- Underground and overhead water tanks
- Assessment of Bore wells
- Electrical main supply, connection with transformer etc.
- Rendering plant.
- Chillers/freezers of suitable capacity.

(xi) Preparation and submission of Final Tender Document as per instruction.

(xii) Tendering Process

- Providing clarifications on the preparation of DPR tender documents (to the selected entities & amending the document if required).
- Evaluation of the DPR prepared by them.
- Preparation of Technical Comparison
- Preparation of comparisons, recommendations, agreements & draft forward the contract.

(xiii) Regular monitoring of the work executed as per DPR till its completion.

(xiv) Preparation of reports required for submission to various agencies like Delhi Pollution Control Committee, FSSAI, APEDA etc.

(xv) Attending meetings with North DMC and other agencies in relation to the Project.

(xvi) Any other work as per the requirements of the project as proposed by the NDMC from time to time.

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1.1. OBJECTIVE

To develop and build an abattoir for processing of approx. 1000 pigs per shift on a plot measuring 40076 sq mtr in Rani Khara, Rohini with the provision of expansion so as to meet future demands of pork in the capital. The abattoir shall be build on the basis of design, build, finance, operate and transfer (DBFOT) i.e. it shall be fully build financed & operated by the successful bidder. On the expiry of engagement period, it shall be transferred to the North DMC. After a moratorium of mutually agreed period, the developer shall have to share a certain percentage of profit with North DMC.

2. REQUIREMENT

The abattoir shall have the provisions for all the allied ancillary units such as lairage isolation room and pork processing units etc.

3. PERSONNEL

All experts who have a crucial role in implementing this EOI are referred to as key experts.

An experienced consultant for the efficient monitoring of working of pig abattoir project is required who shall have following skills :-

- i) have excellent communication and analytical skills.
- ii) be proficient in report drafting.
- iii) have excellent team working abilities.
- iv) Excellent command of written and spoken English.

	Key Experts	Experience
A	Team Leader / Consultant	3 years Experience of designing setting up, operating pig abattoir
B	Veterinarian	3 years experience of working in an abattoir
C	Engineers	Mechanical, Civil & Electrical Engineers which have (3) years of experience of designing and construction of an abattoir or such facilities

4. GENERAL PROVISIONS

Abattoir shall be managed hygienically and under the supervision of a competent authority.

The abattoir shall have -

- (i) A State-of-art building which shall be impervious, easy to clean and resistant to corrosive material.
- (ii) Lairage provided with good drainage, ventilation & adequate light for doing ante-mortem inspection and Isolation pens equipped with good drainage, ventilation for suspected animals.
- (iii) Corridor for transport of pigs from the lairages to the abattoir, equipped with facilities for sufficient drainage & washing of animals.
- (iv) Separate room for the cleaning and treatment of intestines.
- (v) Separate room for the storage, disposal and treatment of inedible and condemned animals, carcass and meat.
- (vi) Floors constructed of dense, acid-resistant, waterproof concrete material providing antiskid surface finish.

- (vii) Smooth walls made of Portland cement plaster or other non-toxic, non-absorbent material applied to a suitable base which shall be provided with sanitary bumpers to prevent damage by movable equipment.
- (viii) Ceilings of adequate height constructed of portland cement plaster or other acceptable impervious material that allows for easy cleaning.
- (ix) Provisions for adequate natural light and ventilation.
- (x) Doorways at least 1.5 mtr wide and the doors must be made of rust-resistant metal sheet having tight soldered or welded seams. Door jambs shall be covered with rust-resistant metal.
- (xi) Pest proofing to prevent the entry of insects, rodents & posts.
- (xii) Dressed timber used for all exposed interior wood work, and it shall be painted with a good non-toxic oil or plastic base paint, treated with linseed oil or with a clean wood sealer.
- (xiii) The parts of the floor where wet operations are to be conducted shall be well-drained.
- (xiv) Drains for paunch and stomach contents at least twenty centimeters in diameter.
- (xv) Efficient Waste disposal system of adequate size and must comply with the Government's guidelines for disposal of slaughter house waste and dead animal carcass.

5 ABATTOIR LAYOUT PLAN

5.1 The abattoir shall have the essential facilities/rooms for the following activities:-

- i) Reception of the animal
- ii) Animal weighing area
- iii) Lairage/holding pen should have a chute*/v race.
- iv) Ante-mortem inspection
- v) Isolation of sick/suspected animals
- vi) Carrying out humane slaughter – stunning area, sticking & bleeding area, washing of the carcasses
- vii) Mechanized overhead conveyor rail for hanging carcasses and edible offal
- viii) Handling by-products
- ix) Handling solid and liquid wastes
- ix) Inspection of meat and discard room
- x) Chilling and Freezing facilities
- xi) Fabrication/cutting room
- xii) Emergency slaughter room
- xiii) Staff welfare including canteen
- xiv) Provision of hot and cold potable water
- xv) Toilets and changing rooms
- xvi) Hot water and boiler facilities as required
- xvii) Workshop for maintenance
- xviii) Administrative building/office space
- xix) First aid room
- xx) Security points
- xxi) Compound wall and Approach roads
- xxiii) Adequate air conditioning facilities

***CHUTE:** A passage down which you can drop or slide things so that you don't have to carry them.

5.1.2 The abattoir design shall provide for the separate gates for the entry of the pigs to be slaughtered and the exit of the products.

5.1.3 A complex for the retail or wholesale marketing of the finished products should be build which should be accessible to the customers for business transaction.

5.1.4 No over lapping between clean & dirty area. Abattoir shall have clear cut separation between clean and dirty areas. Adequate distance/separation should exist between the places used for entry of healthy live animal into the abattoir up to the emergence of meat & offal.

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