



NEW TOWN KOLKATA DEVELOPMENT AUTHORITY

(A Statutory Authority under Government of West Bengal)

3, Major Arterial Road • New Town • Kolkata – 700156

Ph. No. (033) 2324-2138 Email Id: eenkda@gmail.com

Memo. No. 5888/ NKDA / Engg – 36 / 2010 (XI)

Date: 25 /11/2020

NOTICE INVITING ITEM RATE e-TENDER

Notice Inviting e-Tender No. WBNKDA/45/EE-I/NKDA/2020-21

Executive Engineer – I, New Town Kolkata Development Authority invites item rate e-Tender from resourceful, reliable, bona-fide and experienced working agencies / contractors of KMDA, WBHIDCO, PWD, NKDA and other Govt. Departments as well as other organizations having experience in similar nature of work and are requested to submit their offer for the work detailed below.

(Submission of Bid through **online**)

S l . N o	Name of the work	Estimated Amount (Rs.)	Bid Security Money (Rs.)	Price of Tender documents (Rs.)	Period of Completion
1	INTEGRATED FACILITY MANAGEMENT SERVICES AT NEW TOWN BUSINESS CLUB & New Town Banquet Hall (near Pride Hotel) AT ACTION AREA – IA, NEW TOWN, KOLKATA, (for 01 year).	Amount to be quoted by the bidders	Rs. 2,00,000.00	Rs. 5,005.00 Each set to be paid only by the successful bidder during the time of agreement	01 (one) year.

- 1) In the event of e-filing, intending bidder may download the tender documents from the website <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate. All the bidders will have to submit On-line Earnest Money & necessary Earnest Money will be deposited by the bidder through the following payment mode as per Finance Department Order No. **3975-F(Y)** dated 28th July, 2016 (Annexure-A).
 - (i) **Net Banking** (any of the banks listed in the ICICI Bank Payment gateway) in case of payment through ICICI bank payment gateway.
 - (ii) **RTGS / NEFT** through bank account in any bank. The EMD shall be deposited in favour of “**New Town Kolkata Development Authority**” payable at “**Kolkata**”.
- 2) Both **Technical Bid** and **Financial Bid** are to be submitted concurrently duly digitally signed in the website <http://etender.wb.nic.in>

- 3) Tender documents may be downloaded from website and submission of Technical Bid and Financial Bid will be done as per Time Schedule stated in Sl. No. 14 of this NIEt.
- 4) The **FINANCIAL OFFER** of the prospective qualified tenderer(s) will be considered only if the **TECHNICAL BID** of the tenderer(s) is found qualified by competent authority of New Town Kolkata Development Authority. The decision of the competent authority of New Town Kolkata Development Authority will be final and absolute in this respect. The list of Qualified Bidders will be displayed in the website.
- 5) **Eligibility criteria:-**
- (i) The Organization must be successfully executing services like environmental upkeep and management, security management, electromechanical support and management, waste management, façade cleaning under authority of (state/central Govt. or undertaking or statutory bodies) Corporate houses, Business centers, Malls, Residential complexes, Health care, Education, etc. directly without subcontracting any activity.
 - (ii) The Organization must be managing all the operations through staff on direct rolls and not engage sub contractor. In this regard the organization has to produce a manpower certificate issued by chartered accountant.
 - (iii) The organization must have two running contracts of providing security or housekeeping, plumbing, electrician or complete Integrated Facility Management services in a single contract of 5 to 6 Lakhs per month or above. Documentary Evidence should be submitted. (Statutory Documents).

Documentary evidence should be provided in support of the above.

A. Legal Entity:

- (i) The bidder shall have to comply with the provisions of (a) the contract labour (Regulation Abolition) Act. 1970 (b) minimum wages Act. 1948 of the notification thereof or any other laws relating thereto and the rules made and order issued there under from time to time. The bidder must have registrations like G.S.T, PAN, EPF, ESIC, Contract Labour, Professional Tax registration and latest challan, IT Return of last three years etc.
- (ii) The organization must have an office in Kolkata.
- (iii) The organization must be carrying out the business directly through staffs on rolls and does not subcontract any activity (as specified in the scope of work for this tender).
- (iv) Partnership firms, if any, shall furnish the registered partnership deed and the company shall furnish the Article of Association and Memorandum.
- (v) The organization should be enlisted with labour department and has to submit a valid labour license.
- (vi) **Joint Ventures/MOU will not be allowed.**

B. Annual Turnover:

The organization must have average turnover of **Rs.8 crores** per year for last three financial years. A certified document by the chartered accountant stating the Net Worth and average annual turnover of the bidder has to be submitted.

C. Statutory Liabilities and Taxation:

- (i) Must submit proof of compliance.
- (ii) The agency should have valid ESI and PF registration numbers. Copy of allocation letter and copy of latest valid remitted challan shall be enclosed.
- (iii) Service tax as applicable will be reimbursed extra.

D. Certification:

The organization must have certification on ISO 9001:2008.

E. Manpower:

- (i) The organization must have at least three or more capable management staff on roll having technical qualification and experience of more than 10 years to manage the operations.
- (ii) The organization must have adequate staff on direct rolls to support the operations. The operation cannot be sub contracted.
- (iii) All staffs of the organization must have uniforms & identity card.

F. Machines:

- (i) The organization must have adequate technical knowhow of equipments to be engaged for the operation.
 - (ii) The organization must have adequate resource and capability to provide machines for the operations where ever and when ever required.
 - (iii) The organization will have to produce list of all necessary materials, equipments & machines currently owned by them as per last audited balance sheet to ensure that they are capable of doing the business.
 - (iv) Intending bidders are requested to inspect the site for assessment of nature of work and requirement of materials, machineries & equipments.
 - (v) The organization will have to produce list of all necessary materials, equipments & machines currently owned by them as per last audited balance sheet to ensure that they are capable of doing the business.
- 6) All materials are to be procured and supplied at site of work by the tenderer / firm at his / their own cost from approved reputed dealer / manufacturer. Departmental materials will not be issued under any circumstances unless any such provision is made and accepted latter by both the parties. Department unless otherwise stated means New Town Kolkata Development Authority.
- 7) Mobilisation advance, time / cost overrun and consequent cost escalation for any material, labour, etc. will not be allowed.
- 8) The offer shall remain valid for 180 days from the date of opening of the tender. The rate will be fixed for one year from the date of issuance of work order.

- 9) On-going payments for work may be allowed to the executing agency as per existing rules and availability of fund. Subject to deduction of security deposit, progressive payment may be made against the completed or partly completed item of works. Such interim payments, shall be made as running account bill (s), however, shall not construed to mean that the respective items / components have finally been approved and accepted by NKDA and the contractor shall not be absolved of his responsibility to set right any deficiency of such paid items / components at his/ their own cost, for rectifying all defects which are subsequently being noted or found.
- 10) No claim for interest or compensation will be entertained in respect to any money or balance of payment which may be due or alleged to be due to the contractor owing to any dispute between the contractor and NKDA or in respect to any delay in making payment of progressive or final bill of the work, to the contractor.

Payment for the works done by the contractor will be based on recorded and accepted measurement put for payment to be invariably made by putting signature (with seal) of the contractor (or his/ their authorized representative). The contractor or his/ their authorized representative are advised to take measurements jointly with the officials of NKDA. In case of failure of his/their part either to take measurement jointly and /or acceptance of the recorded measurement, within a reasonable time, measurement taken by the department shall be considered as final for making payment. Similar acceptance is also essential for level records and survey data, field books etc.

11) Idle labour, idle rent and hire charges etc.:

No claim of any category and type, on this ground shall be entertained. The contractor and NKDA shall make every effort that such situation does not arise.

12) Security Deposit:

Retention money towards Security amounting to 8% (*eight percent*) of the value of the work shall be deducted from the running account bill of the tenderer as per prevailing order. No interest will be paid on the money retained for Security Deposit.

13) Performance Guarantee:

- (i) The organization must not have any record of poor performance, abandoned work, having being blacklisted by any Government organization. Accordingly one undertaking stating the same should be submitted to the tender inviting authority. Registered declaration regarding the same should be submitted by the successful bidder at the time of formal agreement.
- (ii) The successful bidder must have to submit 10% (Ten percent) of tendered amount as performance security in the shape of Demand Draft / Banker's Cheque of any Scheduled bank drawn in favour of "**New Town Kolkata Development Authority**" payable at Kolkata and to be submitted at the time of agreement.
- (iii) The organization must demonstrate implementation of adequate checklist and process flow to monitor the operation and guarantee the performance at every point of time.

14) Date and Time Schedule:

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	25/11/2020
2	Documents download start date (Online)	25/11/2020 from 3:00P.M.
3	Documents download end date (Online)	16/12/2020 upto 3:00P.M.
4.	Pre-Bid Meeting	01/12/2019 at 1.00 P.M.
5.	Bid submission start date (Online)	25/11/2020 from 3:00P.M.
6.	Bid submission closing date (Online)	16/12/2020 upto 3:00P.M.
7.	Bid opening date for Technical Proposals (Online)	18/12/2020 at 1:00P.M.
8.	Last Date of uploading list for Technically Qualified Bidder(online)	Will be intimated in due course
9.	Date for opening of Financial Proposal (Online).	Will be intimated in due course

- 15) (a) Earnest Money for the successful tenderer will be retained and converted as Initial Security deposit. The Balance security deposit @ 8% will be deducted from on-going bills to cover 10% of the total value of work done.
(b) The security deposit for the original work of the successful tenderer will be refunded after defect liability period as stipulated in relevant clause of the tender document.
- 16) The tenderers are bound by the terms & conditions of WBF 2911(ii) along with specification, notice for calling Tenders, Special terms & condition, Information to Bidders, Schedule of works etc, which forms a part and parcel of this contract.
- 17) Income Tax and others Taxes as admissable will be deducted as per Govt. orders issued from time to time and would be applicable on the date of making payment of the bills. Building & other construction workers cess @ 1.0% will be deducted from progressive bills in pursuance with G.O. no. 599A/ 4M – 28 / 06 dated 27/09/2006. The rate quoted would remain same throughout the period of contract and should be inclusive of **all taxes** including GST which are and will also be applicable during the entire tenure of the contract.
- 18) The Bidder, at his own responsibility and risk is encouraged to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for the work as mentioned in the Notice Inviting Tender, before submitting offer with full satisfaction. The cost of visiting the site, shall be at his own expenses.
- 19) The intending Bidders shall clearly understand that whatever may be the out come of the present invitation of Bids, no cost of Bidding shall be reimbursable by the Department. New Town Kolkata Development Authority reserves the right to accept or reject any offer without assigning any reason whatsoever and is not liable for any reimbursement of any cost that might have been incurred by any Tenderer at any stage of Bidding.
- 20) Prospective applicants are advised to note carefully the eligibility criteria before tendering the bids.
- 21) **Conditional / Incomplete tender will not be accepted under any circumstances.**
- 22) **The intending tenderers are required to quote the rate *online*.**
- 23) Contractor shall have to comply with the provisions of (a) the contract labour (Regulation Abolition) Act. 1970 (b) Apprentice Act. 1961 and (c) minimum wages Act. 1948 of the notification thereof or any other laws relating there to and the rules made and order issued there under from time to time.
- 24) During scrutiny, if it comes to the notice of the tender inviting authority that the credential or any other paper found incorrect / manufactured / fabricated, that bidder would not be allowed to participate in the tender and that application will be rejected without any prejudice.
- 25) If there be any objection regarding prequalification of any Agency the same should be lodged online to Chief Engineer, New Town Kolkata Development Authority within 2 (*two*) days from the date of publication of list of qualified agencies and beyond the said time schedule no objection will be entertained.
- 26) Before issuance of WORK ORDER, the Tender Inviting Authority may verify the credential and other documents of the lowest tenderer in original, if found necessary. After verification if it is found that the documents submitted by the lowest tenderer is either manufactured or false in that case work order will not be issued in favour of the said Tenderer under any circumstances and his/their offer will be treated as cancelled.

- 27) If any discrepancy arises between two similar clauses on different notification, the clause superseding others will be solely as per the discretion of the Tender inviting authority.
- 28) The successful Tenderer whose tender is accepted shall make formal agreement in WBF 2911 (ii) along with bid documents in triplicate, within 7 (seven) days from the date of issue of LOI cum acceptance order by Executive Engineer – I, New Town Kolkata Development Authority on payment of usual charges which is non-refundable under any circumstances and submit the same duly signed by him/them to this office. If the contractor fails to perform the formalities within the specified period the Tender is liable to be cancelled and the Earnest Money will be forfeited as per relevant clauses under memorandum of WBF 2911(ii).
- 29) **Qualification criteria:**
 The tender inviting and Accepting Authority will determine the eligibility of each bidder. The bidders shall have to meet all the minimum criteria as stipulated in relevant clauses of this NIEt.
- The eligibility of a bidder will be ascertained on the basis of the document(s) submitted in support of the minimum criteria. If any document submitted by a bidder is either manufactured or false, in such cases the eligibility of the bidder / tenderer will be rejected at any stage without any prejudice to take any penal action against him/them as may be deemed fit by the Tender Accepting Authority.
- 30) **No. price preference and other concession will be allowed as per order no 8648 – F(T) dated 12.10.2012.**
- 31) In case of any inadvertent typographical mistake in the specific price schedule of rates, the same will be treated to be so corrected as to confirm with the prevailing relevant schedule of rates and/or technically sanctioned estimate.
- 32) Intending tenderer should note that he will have to work simultaneously with other contractors already entrusted with other work or with contractors to be entrusted with other work in future in the same site. The contractor will have to work in close co-operation and harmony with all the contractors engaged in the project. Any claim for idle labour, for any reason whatsoever, will not be entertained under any circumstances.
- 33) NKDA will not be held responsible for making payment against any anticipated profit and/or compensation for any losses or price escalation whatsoever for the works as stated in the annexure of this NeIT. Rates should be quoted accordingly.
- 34) The address as furnished by the contractor shall be deemed as the postal address of this office. Any notice or instruction to be given to the contractor under the terms of contract shall be deemed to have been served if it has been delivered to his authorized agent (on the strength of authorization) or representative or sent by registered letter to his official address as furnished.
- 35) Arbitration clause of WBF 2911(ii) stands deleted, notwithstanding whatever has the object of deletion of Clause-25 from the Contract Form of WBF-2911(ii), the parties entering into the agreement pertaining to this NIEt, if so desire, may go for money suit for any dispute in his / there opinion arising out of this contract and he/ they may file such suit in any court of law situated in Kolkata proper in the district of West Bengal.

- 36) Any Corrigendum, notification in connection to this NIEt will be published in the official website of New Town Kolkata Development Authority (www.nkdamar.org) as well as <https://wbtenders.gov.in>. The applicants are requested to please follow the websites for such notifications, corrigendum etc.

Special Condition of contract that must be adhered to by the Facility Management Company.

- (a) Minimum wages as prescribed by the Govt. Wages Act should be in vogue.
- (b) Basic pay should not be enhanced by adding other allowances
- The minimum number of manpower required to be deployed in various shifts have to be physically deployed on every day basis and therefore if any personnel are absent in any shift, substitute have to be additionally provided by the Service Provider at the appointed time slot for which the absentee was absent.
 - No deviation in the deployment of the number of manpower in various shifts shall be acceptable.
 - The housekeeping & security personals must be at least 10th pass and the Supervisors must be at least 12th pass and have thorough knowledge in their own domain
 - All personals should be smartly dressed in neat and clean uniforms having firm's logo. A steam iron along with an ironing board should be provided by the Service Provider for pressing the uniforms
 - Deployed manpower at all levels must be properly trained as per job division. Periodic training and personnel development plan must be documented and presented to NKDA quarterly
 - The Service Provider shall facilitate quarterly training to the housekeeping department or shall organize such trainings from the chemical & equipment manufacturer covering topics such as applicability, dos & don'ts, up keeping, maintenance, chemical compatibility, methods of use, safe practices, cleaning standard, science of cleaning etc under the knowledge of NKDA & shall keep the same documented along with attendance sheet, duly signed & stamped by the training agency
 - Similarly the Service Provider shall facilitate quarterly training to the security department or shall organize such trainings from reputed agencies under the knowledge of NKDA & shall keep the same documented along with attendance sheet, duly signed & stamped by the training agency
 - The Service Provider shall facilitate **monthly fire drill** programme both for housekeeping & security.
 - The Service Provider shall perform night checking on weekly basis and if any personal is found to be negligent on duty he/she should be show caused and disciplinary action to be taken against him/her, the same checking should be done in the early morning shifts also.
 - Zero balance salary account of all the employees has to be opened within 1st month of operation for crediting their salary. Payment has to be released by 7th of every month. Any delay in this regard shall be responded with a monetary deduction as prescribed by NKDA.

- NKDA reserves the right of surprise audit, inspection, gap analysis at any time with or without prior intimation to the Service Provider, by self or third party
- Appropriate corrective measure shall be followed on finding any discrepancy in quality of cleaning, following SOPs, safety measures, deployment of manpower & equipment, chemical & tools.
- Based on the audit report, if any change or addition/deletion in the existing practices are found required, it has to be implemented by the Service Provider with immediate effect. If this includes introduction of any chemical reagent or equipment of same standard which is not listed in the tender but required, then with prior approval from NKDA the same have to be procured & implemented & the bills shall be paid by NKDA on actual or as per the discretion of NKDA
- The duty of the manpower deployed shall be decided by the Service Provider, with pre decided deployment plan & schedule of cleaning for light, spring cleaning & deep cleaning, only after taking the consent from NKDA. However, the Service Provider shall be responsible to engage manpower as per requirement to keep all buildings, glass panels etc clean round the clock. The housekeeping work shall be continued throughout the day. However, the major sweeping, cleaning, moping, disposal of waste etc should invariably be completed before 11:00 hours and cleaning of floors & glass panels shall be maintained continuously throughout the day
- All statutory obligations are to be strictly adhered to, as per Govt rules. Any negligence in this regard shall make the contract liable to be cancelled with immediate effect

The List & make of housekeeping chemicals / materials is furnished and should be followed by the agency:-

SN	Name of Housekeeping Item	Unit	Monthly Consumption	Yearly Consumption
1	Acid (Muratic)	litre	1.00	12.00
2	Acid (Oxalic)	kilogram	2.00	24.00
3	Bleaching Powder	kilogram	2.00	24.00
4	Bottle (Spray)	piece	2.00	24.00
5	Bottle (Squeeze)	piece	1.00	12.00
6	Brasso - 500 ml	piece	1.00	12.00
7	Soft Broom - Nylon	piece	5.00	60.00
8	Brush - Cobweb (Curve)	piece	0.25	3.00
9	Brush - Commode Cleaning	piece	1.00	12.00
10	Brush - Scrubbing	piece	1.00	12.00
11	Brush - Scrubbing with Handle	piece	0.50	6.00
12	Bucket (14 litre)	piece	0.50	6.00
13	Citronella Oil - 100 ml	bottle	2.00	24.00
14	Combi - 35cm Refill	piece	1.00	12.00
15	Combi - 35cm Rubber Pad	piece	1.00	12.00
16	Combi Set - 35cm	piece	0.50	6.00
17	Detergent Powder (Surf Excel)	kilogram	1.00	12.00
18	Dettol Hand Wash Refill - 900 ml	bottle	3.00	36.00
19	Dust Pan	piece	1.00	12.00
20	Jobby Dust Pan	piece	0.25	3.00
21	Duster (Flannel)	piece	10.00	120.00
22	Duster (Floor)	piece	5.00	60.00
23	Duster (Glass)	piece	25.00	300.00

24	Duster (Table)	piece	25.00	300.00
25	Floor Scrubbing Pad – 17inch (Diversey)	piece	3.00	36.00
26	Garbage Bag (16 x 24)	packet	20.00	240.00
27	Garbage Bag (36 x 42)	packet	5.00	60.00
28	Glade Automatic Refill Pack	piece	1.00	12.00
29	Gloves	pair	2.00	24.00
30	Godrej Aer Bathroom Fragrance	piece	1.00	12.00
31	Good Knight ADVANCED Machine	piece	2.00	24.00
32	Good Knight ADVANCED Refill	piece	10.00	120.00
33	Good Sense Auto Dispensers	piece	0.50	6.00
34	Good Sense Auto Refill - Fresh	piece	6.00	72.00
35	Head & Shoulders Shampoo Sachet	piece	30.00	360.00
36	HIT - Black (500 millilitre)	piece	15.00	180.00
37	HIT (Red) - 500 millilitre	can	5.00	60.00
38	Medimix Soap - 30 gm	piece	30.00	360.00
39	Mop Refill - Dry	piece	5.00	60.00
40	Mop Refill (Wet - Flat)	piece	15.00	180.00
41	Mop Refill (Wet - Round)	piece	10.00	120.00
42	Mop Set - Dry	piece	0.50	6.00
43	Mop Set - Wet (Flat)	piece	1.00	12.00
44	Mop Set - Wet (Round)	piece	1.00	12.00
45	Mug	piece	1.00	12.00
46	Odonil A1 Cube	packet	5.00	60.00
47	Odonil Block Hanger Pack - 50 gm	piece	20.00	240.00
48	Phenyl (Deodorant)	litre	10.00	120.00
49	Pinza Clip	piece	5.00	60.00
50	Room Freshener - Godrej Aer	can	10.00	120.00
51	Rubber Wiper (Big)	piece	0.50	6.00
52	Rubber Wiper (Medium)	piece	1.00	12.00
53	Rubber Wiper (Small)	piece	1.00	12.00
54	Scotch Brite - 3M (4" x 6")	piece	10.00	120.00
55	Scotch Brite with Handle - 3M	piece	5.00	60.00
56	Shoe Brush	piece	3.00	36.00
57	Shoe Polish - 40gm	piece	6.00	72.00
58	Sponge	piece	2.00	24.00
59	Stick Broom with Handle	piece	2.00	24.00
60	Suma Breakup D3.5	litre	2.50	30.00
61	Suma Inox D7.1	litre	2.50	30.00
62	Taski Fresh & Clean Urinal Screen	piece	4.00	48.00
63	Taski R2	litre	25.00	300.00
64	Taski R3	litre	5.00	60.00
65	Taski R4	litre	4.00	48.00
66	Taski R5	litre	2.50	30.00
67	Taski R6	litre	10.00	120.00
68	Taski R9	litre	2.50	30.00
69	Taski Soft Care Star H100	litre	5.00	60.00
70	Taski TR101	litre	2.50	30.00
71	Tissue Paper Box - 100pulls	piece	30.00	360.00
72	Tissue Paper Roll - 227gm	piece	70.00	840.00
73	Wall Mounted Liquid Soap Dispenser	piece	1.50	18.00
74	Wall Mounted Plastic Tissue Paper Box	piece	1.50	18.00

The following housekeeping and security Equipment/Machine has to be procured by the Service Provider from manufacturer or its authorized distributor only. Equipment/Machine should be brand new. Service Provider shall make sure that unboxing & installation is done in front of authorized personnel from NKDA. Equipment/Machine should be deployed as per given specification only, any deviation from the specification & minimum quantity shall not be acceptable

(i) High Pressure Jet of Diversey make, model: Jonmaster LMX 1211XP or equivalent with the below specifications

Operating Pressure/Max	50-120 bar/725-1740 psi
Delivery rate	660l/h

Power consumption	3200W (3.2 KW)
RPM	2800
Voltage	230V~50 Hz
Power cable	5 mt
Pressure regulator	Yes
Automatic stop system	Yes
Detergent Tank	Yes

Motor 4HP

(ii) Single Disc Scrubbing Machine along with water tank, driving disc, scrubbing brush & foam generator of Taski make, model: Ergodisc 165 or equivalent with the below specifications

Working Width	43 cm
Speed	165 RPM
Vertical Clearance	31.5 cm
Nominal Consumption	1100 w
Voltage	230 v
Cable Length	15 meter
Sound Level	57dB (A)

Should have the following dimensions

- Closed handle, with ergonomic design: Gives protection to hands & electrical safety
- Double safety lock: Ensures safety
- Foldable handle: Easy for transportation
- Adjustable handle: Improves productivity
- Should have a Floating pad drive: This ensures a constant working pressure and enables the machine to be used on uneven floors
- Cleaning solution distribution shall be from the center of the pad: This ensures that the whole surface of the pad is utilized.
- Multiple applications: Wet scrubbing, Stripping, Buffing, spray cleaning and crystallization can be done.

(iii) Wet & Dry Vacuum Cleaner along with 8500.380 suction tube one end, suction hose complete 2.2m, angle coupling for vac12, aluminium nozzle for fixed squeegee blade, universal dust nozzle, 30015-32 dust bag basket, polyester filter bags for vac of Taski make, model: Vacumat 22 or equivalent with the below specifications

Container Capacity: Wet	22 litre
Container Capacity: Dry	28 litre
Container Volume	45 litre
Sound level	64 dB (A)
Vacuum	22 kPa
Max air flow	60l/s
Cable length	10 mt
Castor Wheels	5
Castor diameter	50 mm

(iv) Walkie Talkie (4 numbers) of Talk Pro make, model: H250A or equivalent with the below specifications

Transmit Power	Max up to 7 watts
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Battery	Up to 2900 mAh
Talk Time	Up to 48 hours
Torch Light	15 ft beam
Environment	Waterproof / Dustproof
Emergency Alert	Yes
Service Support	Within 48 hours.

Technical specifications for SMALL SIZE SWEEPING MACHINE (500 Ltr. Capacity) for internal roads / campus of NTBC & NTBH including the parking lot opposite NTBC and the entire area of clock tower / skating ring.

Sweeping Path	Minimum 1500 mm with one side broom and minimum 1900 mm with two side brooms.
Dust Hopper Capacity	500 Liters minimum
Wet Sweeping	Should have adequate water storage facilities.
1. Type	Diesel/CNG/Petrol Engine Operated Ride on type with Fuel Tank, Electric Start and 12V Battery Alternator etc.
2. Frame	Heavy duty frame with front bumper. The Frame and chassis should be painted with epoxy based paint.
3. Body	All body components should be made of steel with durable epoxy based paint.
4. Air Suction System	-Suction fan with filters with continuous cleaning system during sweeping -Compressed air for cleaning filters provided through an inbuilt air compressor
5. Hydraulic System	The Machine should have Hydraulic Drive on rear wheel and hydraulic lifting of dust hopper. The movement of brooms should also be operated hydraulically. The entire Hydraulic system should be driven by a pump.
6. Dumping	The dumping operation should be easily controlled and clearly visible from the driver's seat. The dumping operation should be a hydraulically operated one with high dump of the debris directly into a container. The dirt hopper should be fully sealed during sweeping and traveling. Hopper door for facilitating dumping should be provided.
7. Controls	The control devices should be clearly visible, identifiable and ergonomically positioned for safe operation without loss of time/ambiguity.
8. Instrument Panel Indicators	Engine oil pressure, engine cooling liquid, temperature gauge, fuel gauge, operating hour counter, horn, fuse compartment, key switch.
9. Braking System	Service brakes are to be provided.
10. Tyres	Sturdy solid rubber wheels.
11. Drivers Cabin	An all weather driver's cabin with excellent operator visibility should be provided.
12. Key Feature	-Simple setting and adjusting of main and side brushes -Arrangement for wet sweeping. -Headlight, taillights, provided with by mirrors at both sides which will help the driver to steer the vehicle properly. -Yellow beacon both at front & back of the vehicle for safety purpose -Water storage capacity with water spraying system to avoid fine dust flying out -should be able to suck heavy and wet particles also. - To clean & take care of sides, edges, corners. - Protection through filtering (10 micron) arrangement to cover sweep leads to arrest flow of fine dust & to route the same to sweep head. Strainer should be around 80 mesh.
BRAND/ MAKE	TPS / ROOTS MULTICLEAN / KAMAVIDA or Equivalent.

**Executive Engineer-I
New Town Kolkata Development Authority**

Executive Engineer – I
New Town Kolkata Development Authority

Memo.No. 5888 /1(10)/ NKDA / Engg – 36/ 2010 (XI)

Date: 25/11/2020

Copy forwarded for information to:-

1. Chief Executive Officer, NKDA.
2. Chief Engineer, NKDA.
3. Administrative Officer – I/II, NKDA.
4. General Manager, New Town Business Club.
5. Finance Office, NKDA.
6. Assistant Engineer – I, NKDA
7. Estimator/ Sr. Accountant / Cashier, NKDA.
8. P.A to the Chairman, NKDA.
9. Office Notice Board.
10. Official Website of NKDA (www.nkdamar.org)

**Executive Engineer-I,
New Town Kolkata Development Authority**