



NESPAK- REQUIRES DESIGN SOFTWARE FOR H & TE DIVISION OFFICE LAHORE

E-bids are invited from active NTN, GST Registered Firms for the procurement of the following items:

Sr. #	ITEM DESCRIPTION	SPECIFICATIONS	QTY
01	Design Software	<p style="text-align: center;">Autodesk Civil 3D</p> <p>Key Features & Specifications:</p> <p>Site and survey workflows: Download, create, analyze, and adjust survey data, as well as transfer field-captured data to the office.</p> <p>Intersection design: Create dynamic models of 3-way (T-shaped) or 4-way intersections, as well as roundabouts.</p> <p>Plan production and documentation: Quickly create construction documents from drawings, including plan/profile, plan(s)-only, profile(s)-only, and section sheets</p> <p>Geotechnical modeling: Visualize and analyze subsurface data and easily utilize that data directly in the Civil 3D design model.</p> <p>Terrain modeling: Create digital models of topography for land-use studies, transportation system planning, and water flow simulations.</p> <p>Drainage design and analysis: Manage stormwater and sanitary sewer design. Define pipeline paths, optimized with hydraulics/hydrology analysis.</p> <p>Interoperability: Civil 3D supports import, export, and links with commonly used CAD formats, including IFC, and connects with Esri ArcGIS and Bentley data.</p> <p>Materials and quantities: Use materials and sectional or profile information to create reports for volumes, comparing design and existing surfaces and quantity takeoff.</p> <p>Corridor modeling: Create dynamic and data-rich corridor models for highways, roads, and rail tracks.</p> <p>Pressure networks: Lay out horizontal and vertical pressure network designs; model deflected-curve pipe segments and use design and depth checks.</p> <p>Design automation: Use visual programming to generate scripts that automate repetitive and complex tasks, including electrification and signaling.</p> <p>Bridge design: Coordinate workflows more efficiently across the various disciplines working on complex bridge design projects.</p> <p>Bim Integration: Supports Building information Modeling(BIM) workflows for better project coordination and decision-making.</p>	03

Autodesk Infra Works

Key Features & Specifications:

Context modeling:

Aggregate data to generate a context model that represents a project's built and natural environment.

Sight distance analysis:

Analyze sight distance for roads and intersections to identify blind spots or sight failure zones.

Bridge design:

Support for precast I-girder and steel plate girder bridge types.

Drainage design:

Use Drainage Design for InfraWorks to model watersheds, culverts, and drainage networks.

Conceptual design:

Produce design concepts of infrastructure projects, then rapidly evaluate and iterate on design options.

Traffic and mobility simulation:

Analyze traffic flow and use multi-modal simulation to evaluate Performance.

Refined bridge analysis:

Create analytical models for steel composite and prestressed pretensioned concrete girder bridges.

Interoperability:

Aggregate data from more than 50 file formats, including AutoCAD, Revit, IFC, and more.

Roadway design:

Accelerate design by using component roads and planning roads to get a conceptual view of your project.

Parametric civil structures:

Use parametric bridge and tunnel component parts and assemblies, as well as parametric road decorations.

Tunnel design:

Design parametric tunnels in the context of your overall infrastructure design project.

Create compelling presentations.

Produce storyboards that include a series of snapshot views or a dynamic video pathway.

Autodesk Revit

Key Features & Specifications:

Conceptual design tools:

Articulate form in the Revit massing environment with free-form tools for profiling and massing. Refine geometry parametrically in the project environment.

Architectural modeling:

Add architectural elements to the building model, including walls, doors, and windows, or define custom components and families to meet any modeling need and level of detail.

Multistory stairs:

Quickly create and modify multistory buildings by connecting stairs to the levels in your project.

Analysis with Insight:

Use advanced simulation engines and building performance data integrated in Revit to assess daylighting, whole building energy, heating and cooling loads, and more.

Point cloud tools:

Use scanning tools to capture existing and as-built conditions and import into Revit as point clouds.

Site design:

Create toposolids and site elements with new modeling capabilities in Revit. Use snap to 3D points for underlay geometry, including linked DWG files, to ensure precise alignment.

Embodied carbon:

Understand the carbon impact of your projects from concept design using the Revit add-on for Insight. Bring your Revit Energy Analytical Model into Insight to assess building performance trade-offs. Run carbon reduction scenarios and make informed design decisions to support low carbon approaches to design.

Visual styles:

Explore, validate, and communicate design decisions visually. Revit renders with high quality and precision through the Autodesk Raytracer rendering engine.

TERMS & CONDITIONS:

1. E-bids can be submitted on or before **March 25, 2026** up to **11:00 A.M** along with **Rs.50,000/- (Rupees fifty thousand only)** earnest money in form of pay order/CDR/bank draft in the name of National Engineering Services Pakistan (Pvt.) Limited. Bids will be open on the same day at **11:30 A.M** in front of bidders or their representative. Pay order of supplier approved by the committee will be retain until completion of supply order. In case of non-compliance of the purchase order, earnest money will be forfeit and purchase order will be treat as cancelled.
2. Bids received without earnest money and after due date and time shall not be entertained.
3. The competent authority reserves the right to reject any or all the bids in accordance with Rule 33 of Public Procurement Rule 2004.
4. Bids provided of each item shall be marked with the price inclusive of all taxes. The purchase order shall be issued independently to the lowest bidder of each item.
5. Supply of said items shall be made within two weeks of issuance of purchase order by NESPAK.
6. NESPAK reserves the right to increase/decrease quantity of each item and this bid is valid for 6 months.
7. Repeat order may be placed within 6 months of bid opening date.
8. In case a better /higher model is available in the market in this period at same price the supplier may supply it.
9. No advance payment given by NESPAK. Payment will released within four weeks after submitting of invoice with Annex. C as per purchase order.
10. Sales Tax, Income Tax and other Taxes shall be deducted as per Government rules.
11. This tender is available at **NESPAK** (www.nespak.com.pk) and **PPRA** (www.ppra.org.pk) website.
12. Interested suppliers must attach GST & NTN certificates (Copies) along with bid; otherwise, bid will not entertained.

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