Appendix 1

Detailed Implementation Rules of Beijing Municipality for *Classified Management Catalogue of Environmental Impact Assessment of Construction Projects* (2019)

| **Environmental Impact Assessment Category**  **Project Type** | | **Report** | **Report Form** | **Registration Form** | **Definition of Environmental Sensitive Areas in this Column** | **Special Assessment Requirements of Report Form** |
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| **XIII. Manufacturing of Cultural & Educational, Arts & Crafts, Sports and Entertainment Products** | | | | | | |
| 31 | Cultural & educational, sports and entertainment products | / | All (including advertising production projects with spray painting) | / |  |  |
| **XV. Manufacturing of Chemical Materials and Chemicals** | | | | | | |
| 36 | Manufacture of basic chemical raw materials; pesticide manufacturing; manufacture of coatings, dyes, pigments, inks and similar products; manufacture of synthetic materials; manufacture of special chemicals; manufacture of explosives, pyrotechnics and fireworks products; manufacture of water treatment agents, etc. | New construction, expansion and technical renovation of main installations (Except for pure mixing and sub-packing) | Others | / |  | Risk assessment (Manufacturing of oily coatings, oily dyes, oily pigments, oily inks and similar products) |
| 39 | Manufacturing of daily chemicals | New construction, expansion and technical renovation of main installations (Except for pure mixing and sub-packing) | Others | / |  |  |
| **XVI. Pharmaceutical Manufacturing Industry** | | | | | | |
| 40 | Chemicals manufacturing; biological and biochemical products manufacturing | New construction, expansion and technical renovation of main installations | Others | / |  |  |
| **XVII. Chemical Fiber Manufacturing Industry** | | | | | | |
| 44 | Chemical fiber manufacturing | New construction, expansion and technical renovation of main installations (except for pure spinning) | Others | / |  |  |
| **XXV. Automotive Industry** | | | | | | |
| 71 | Automotive industry | Vehicle manufacturing (excluding assembly only); engine production; parts and components production with plating or spraying process and annual paint volume (containing diluent) at and more than 10 tons | Others | / |  | Engineering analysis and evaluation (Involving organic coatings (without powder spraying or plastic spraying) |
| **XXVI. Manufacturing of Railway, Ship, Aerospace and other Transportation Equipment** | | | | | | |
| 72 | Manufacture and repair of railway transportation equipment | Manufacture of locomotives, vehicles and EMUs; engine production; parts and components production with electroplating or spraying process and annual paint volume (containing diluent) at and more than 10 tons | Others | / |  | Engineering analysis and evaluation (Involving organic coatings (without powder spraying or plastic spraying) |
| 74 | Manufacturing of aerospace vehicles | With electroplating or spraying process and annual paint volume (containing diluent) at and more than 10 tons | Others (except for assembly and testing only (not involving civil works and sewage discharge into municipal pipe networks, and not involving drilling, cutting, bending, welding using solders, gluing/bonding, chemical (solvent) cleaning, testing producing waste gas or water, etc.)) | **Assembly and testing only (not involving civil works and sewage discharge into municipal pipe networks, and not involving drilling, cutting, bending, welding using solders, gluing/bonding, chemical (solvent) cleaning, testing producing waste gas or water, etc.)** |  | Engineering analysis and evaluation (Involving organic coatings (without powder spraying or plastic spraying) |
| 77 | Manufacture of transportation equipment and other transportation equipment | With electroplating or spraying process and annual paint volume (containing diluent) at and more than 10 tons | Others (except for assembly only) | Assembly only |  | Engineering analysis and evaluation (Involving organic coatings (without powder spraying or plastic spraying) |
| **XXVII. Electrical Machinery and Equipment Manufacturing Industry** | | | | | | |
| 79 | Solar cells | New construction and expansion of solar cells production; technical renovation of main installations, which results in an increase of 30% or more in scale | Others | / |  |  |
| **XXX. Comprehensive Utilization of Waste Resources** | | | | | | |
| 86 | Waste resources (including biomass) processing and recycling | New construction, expansion and technical renovation of main installations for the processing and recycling of waste electronic and electrical products, waste batteries, waste automobiles, waste motors, waste hardware, waste plastics (removal of sorting and cleaning process), waste oil and waste tires etc. | Others | / |  |  |
| **XXXI. Electricity, Thermal Production and Supply Industry** | | | | | | |
| 90 | Biomass power generation | New construction, expansion and technical renovation of main installations for domestic waste and sludge incineration for power generation | Utilization of agroforestry biomass, biogas and landfill gas for power generation; Others | / |  |  |
| 92 | Thermal production and supply project (electric heating boilers, **existing non-clean energy boilers upgraded and renovated to clean energy boilers of the same size and below, except for low-nitrogen transformation of existing clean energy boilers without capacity increase**) | The total capacity of coal-fired and oil-fired boilers is more than 65 tons/hour (exclusive); the total converted capacity of distributed energy supply project is equivalent to 65 tons/hour of boiler capacity (exclusive) | Others (except for electric heating boilers and gas-fired boilers with a total capacity of 1 ton/hour and below) | Gas-fired boilers with a total capacity of 1 ton/hour and below |  |  |
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| **XXXIII. Water Production and Supply Industry** | | | | | | |
| 97 | Industrial wastewater treatment | Centralized processing of new construction and expansion | Others | / |  | Water assessment (involving the discharge of Grade I pollutants) |
| **XXXIV. Environmental Governance Industry** | | | | | | |
| 99 | Desulfuration, denitration, dust removal, VOCs processing and other projects **(except for the maintenance of existing environmental governance facilities in industrial enterprises①)** | / | New desulfuration, denitration, dust removal of new construction | Others |  |  |
| 100 | Utilization and disposal **(including hazardous waste storage and transfer facilities)** of hazardous wastes (including medical wastes) | Utilization and disposal (except for separate collection, corpse pits (wells) of sick and dead animals and pure physical disposal without sewage treatment engineering) of new construction, expansion and technical renovation of main installations | Others | / |  |  |
| 101 | Disposal and comprehensive utilization of general industrial solid waste (including sludge) | New construction, expansion and technical renovation by means of landfill and incineration | Centralized disposal of construction waste; others | / |  |  |
| **XXXV. Public Facility Management Industry** | | | | | | |
| 104 | Centralized disposal of municipal domestic waste (including kitchen waste) | New construction, expansion and technical renovation of main installations | Others | / |  |  |
| **XXXVI. Real Estate** | | | | | | |
| 106 | Real estate development, hotels, office buildings, standard factories, etc. **(excluding demolition, decoration, maintenance, reinforcement and repair of buildings, simple and low-risk projects②, self-built and self-living villas that are not for sale or operation, and primary land development)** | / | Involving environmental sensitive areas; wastewater treatment facilities require self-built | Others | All areas in Article 3 (1); basic farmland protection areas, basic grasslands, forest parks, geological parks, important wetlands, natural forests, important habitats for wildlife, and growth and breeding sites of wild plants under special protection in Article 3 (2); culture relic protection sites in Article 3 (3); for standard factories, the areas in Article 3 (3) with the main functions of residence, medical treatment and health care, culture and education, scientific research and administrative office are added |  |
| **XXXVII. Research and Experimental Development** | | | | | | |
| 107 | Professional laboratory **(excluding scientific research design, experiment and test that does not involve civil works and does not emit pollutants)** | P3, P4 biosafety laboratory; GME laboratory | Involving biological and chemical reactions; involving environmentally sensitive areas | Others | All areas in Article 3 (1); basic farmland protected areas in Article 3 (2); all areas in Article 3 (3) |  |
| 108 | R&D base | New construction, expansion and technical renovation of main installations of pilot testing in medicine, chemical engineering and other specialties | Wastewater, waste gas and solid waste from R&D Process (except for domestic sewage and garbage of R&D personnel) | Others |  |  |
| **XXXVIII. Professional Technical Service Industry** | | | | | | |
| 110 | Animal hospitals **(except for animal diagnosis and treatment institutions that do not have the ability to operate on the cranial cavity, thorax and abdominal cavity of animals)** | / | All | / |  |  |
| **XXXIX. Health** | | | | | | |
| 111 | Hospitals, specialized prevention and treatment centers (clinics and stations), community medical services, health centers (clinics and stations), blood stations, emergency centers, maternity and child care centers, nursing homes and other health institutions **(except for simple and low-risk projects③)** | 500 or more newly built or expanded beds | Others (except for those with less than 20 beds) | Less than 20 beds |  |  |
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| **XL. Social Undertakings and Service Industries** | | | | | | |
| 114 | Wholesale and retail markets **(excluding stores**④**, supermarkets**④**, pharmacies**④**, bookstores**④**, flower stores**④**, clothing stores**④**, video stores**④**, and crafts stores that do not produce waste gas**④**)** | / | Involving environmental sensitive areas | Others | All areas in Article 3 (1); basic farmland protection areas, basic grasslands, forest parks, geological parks, important wetlands, natural forests, important habitats for wildlife, and growth and breeding sites of wild plants under special protection in Article 3 (2); culture relic protection sites in Article 3 (3) |  |
| 115 | Catering, entertainment and bathing places **(except for simple and low-risk projects**⑤**)** | / | / | All | All areas in Article 3 (1); basic farmland protection areas, basic grasslands, forest parks, geological parks, important wetlands, natural forests, important habitats for wildlife, and growth and breeding sites of wild plants under special protection in Article 3 (2) |  |
| 116 | Centralized laundry and tableware cleaning and disinfection in hotels, restaurants and medical institutions | / | **Wastewater treatment facilities that require self-building** | Others |  |  |
| 118 | Exhibition hall, museum, art gallery, cinema, concert hall, cultural center, library, archives, memorial hall, stadium, gymnasium, etc. **(except for simple and low-risk projects**⑥**, the maintenance of sports venues and stadiums, and the construction of open-air public fitness facilities)** | / | Involving environmental sensitive areas | Others | All areas in Article 3 (1); basic farmland protection areas, basic grasslands, forest parks, geological parks, important wetlands, natural forests, important habitats for wildlife, and growth and breeding sites of wild plants under special protection in Article 3 (2); culture relic protection sites in Article 3 (3) |  |
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| 123 | Driver training base, public transport hub, large parking lot, motor vehicle testing field **(except for mechanical and simple self-propelled stereo parking equipment in residential areas and on the land owned by an organization)** | / | Involving environmental sensitive areas | Others | All areas in Article 3 (1); basic farmland protection areas, basic grasslands, forest parks, geological parks, important wetlands, natural forests, important habitats for wildlife, and growth and breeding sites of wild plants under special protection in Article 3 (2); culture relic protection sites in Article 3 (3) |  |
| 124 | Petrol and gas stations **(except for the installation of oil and gas recovery devices in petrol and gas stations, and the seepage prevention renovation of underground oil tanks in petrol stations)** | / | New construction and expansion | Others |  |  |
| **XLVI. Water Conservancy** | | | | | | |
| 144 | Flood prevention and water logging control projects | Large and medium-sized new construction | Others (except for revetment of small ditches, and the maintenance of existing levees, pumps and other flood prevention and water logging control facilities) | **Maintenance of existing levees, pumps and other flood prevention and water logging control facilities** |  |  |
| **XLIX. Transportation, Pipeline Transportation and Warehousing** | | | | | | |
| 157 | Classified highways (excluding maintenance, reconstruction and expansion of Grade 4 highways, **and retrofitting or additional sound screens**) | Newly-built more than 30 km highways of Grade 3 and above, newly-built tunnels involving 1-km and longer environmental sensitive areas, and newly-built bridges with 1-km or longer main bridge in environmental sensitive areas | Others (except for supporting facilities, Grade 4 highways not involving environmental sensitive areas, and those exempted from the procedures of environmental impact assessment) | Supporting facilities, Grade 4 highways not involving environmental sensitive areas | All areas in Article 3 (1); all areas in Article 3 (2); all areas in Article 3 (3) | Noise assessment (Grade 3 and above and involving environmental sensitive areas in Article 3 (3) highway, tunnel and bridge) |
| 171 | Urban rail transit | Main facilities | Excluding the station construction in the main line; ancillary facilities such as parking lot, depot, fixed repair section, etc. | / |  | Noise assessment (involving environmental sensitive areas in Article 3 (3)) |
| 172 | Urban road (excluding maintenance and branch) | / | Newly built expressways and trunk roads | Others |  | Noise assessment (secondary trunk roads and above involving environmental sensitive areas in Article 3 (3)) |
| 173 | Urban bridges and tunnels (excluding footbridges and footpaths) | / | All | / |  | Noise assessment (involving environmental sensitive areas in Article 3 (3); atmospheric assessment (involving wind tower construction projects) |
| 175 | Construction of urban pipeline network and corridor (excluding 1.6 MPa and below natural gas pipelines, **construction of pipelines in residential areas, renovation and expansion of rainwater pipe network, thermal pipe network, reclaimed water pipe network, tap water pipe network, communication pipeline⑦**) | / | Newly built or additional land (including sewage pumping stations or combined rainwater and sewage pumping stations) | Others | All areas in Article 3 (1) |  |
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| 177 | Chemical pipeline | Chemical pipelines (excluding nitrogen and inert gases) | Nitrogen and inert gas pipeline | / |  |  |
| 180 | Warehouse (excluding oil depot, gas depot, coal storage, and **simple and low-risk projects**⑧) | / | Warehousing, logistics and distribution projects of toxic, harmful and dangerous articles | / |  | Risk assessment |

**Notes:**

1. Replacement of equipment of the same size or less, which does not involve project expansion and any change in the process
2. Simple and low-risk projects include:

a. **Office buildings with no chemical or biological laboratories** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; aboveground construction area of no more than 10,000 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway);

b. **Commercial buildings that do not sell flammable, explosive, toxic or harmful articles and do not produce lampblack or peculiar smell** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; not including specific business contents; aboveground construction area of no more than 10,000 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway);

c. **Standard factories that are not engaged in production** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; aboveground construction area of no more than 10,000 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway);

d. **Single-storey houses except for contiguous developments** (private houses are only allowed through renovation or construction of original houses; aboveground construction area of no more than 10,000 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations);

e. **Buildings except for contiguous developments** (aboveground construction area of no more than 10,000 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway);

f. **Indoor children’s playgrounds, staff dormitories of labor-intensive enterprises and other public service facilities with no chemical or biological laboratories** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; gross construction area of no more than 1,000 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway);

g. **Temples, church buildings, commercial indoor fitness and leisure facilities and other public service facilities with no chemical or biological laboratories** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; gross construction area of no more than 2,500 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway);

h. **Other public service facilities with no chemical or biological laboratories** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; aboveground construction area of no more than 10,000 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway).

1. Simple and low-risk projects include:

a. **Hospital and sanatorium ward buildings with no chemical or biological laboratories** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; not including specific business contents; gross construction area of no more than 1,000 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway);

b. **Hospital outpatient buildings with no chemical or biological laboratories** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; not including specific business contents; gross construction area of no more than 2,500 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway);

c. **Clinics with only outpatient services and pharmacies** (no civil works involved and sewage discharged into municipal networks);

d. **Traditional Chinese medicine clinics that do not offer decoction, test, assay and production of traditional Chinese medicine preparations** (no civil works involved and sewage discharged into municipal networks);

1. No civil works involved and sewage discharged into municipal networks.
2. Simple and low-risk projects include: **Dance halls, video halls, screening halls, karaoke halls, nightclubs, entertainment halls, saunas, Internet cafés, bars, and restaurants, teahouses and cafés with entertainment functions, which do not sell flammable, explosive, toxic or harmful articles and do not produce lampblack or peculiar smell** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; construction area of no more than 500 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway).
3. Simple and low-risk projects include: **Public libraries and theaters** (except for construction projects of underground space development by making use of green land, square land, urban road land, social parking land and other urban traffic land; gross construction area of no more than 2,500 m2; located in the planned urban and rural construction space; with sound municipal pipe networks, which require no self-built supporting sewage treatment facilities; not involving environmental sensitive areas; not located within the safety control scope of key organizations and subway).
4. No environmental sensitive areas involved and no additional new land required.
5. Simple and low-risk projects include: **Warehousing, logistics and distribution projects that do not store flammable, explosive, toxic, hazardous or dangerous articles.**