## 2018 Procurement Plan

[Others]

[For TEPCO Holdings, Incorporated]

\*This plan may change without notice. \*There are cases the actual procurement transaction is proceding when this is released. \*There are categories with which supplier registration is needed prior to the tender. Date of Delivery Date of Delivery Planned Month of Condition of Item Name Place of Delivery Requesting Office/Station Type of contract Category Type of work (Completion) Quantity Procurement Acceptance yyyy/mm/dd yyyy/mm/dd Transformer converter for power demand/supply meters for the Minohi Measuring New installation / To be n one lump 2018/08 2019/10/01 As per our instruction Saigawa Office 1 Purchase nstruments delivered Measuring New installation / To be one lump 2018/04 2018/06/01 2018/08/31 Head Office Desktop time-domain nuclear magnetic resonance apparatus 2 Purchase llset As per our instruction instruments purchase installed mu Measuring New installation / To be In one lump Head Office Related to the research center 2018/10 2018/11/01 3 Purchase As per our instruction purchase delivered instruments Measuring New installation / To be In one lump 4 Purchase Related to the research center 2018/05 2018/06/11 Head Office As per our instruction instruments nurchase delivered General-purpose New installation / To be In one lump 5 Purchase Uniform (electric-resistant and fire-resistant summer work clothes) 2018/12 2019/08/01 2020/07/31 4,170 piece As per our instruction Head Office products purchase delivered General-purpose New installation / To be In one lump Head Office 6 Purchase Uniform (Clothes for cold weather) 2018/12 2019/08/01 2020/07/31 4,400 piece As per our instruction products purchase delivered New installation / To be General-purpose n one lump 2018/12 Uniform (electric-resistant and fire-resistant winter work clothes) 2019/08/01 2020/07/31 7,380 piece As per our instruction Head Office 7 Purchase products purchase delivered New installation / To be n one lump General-purpose 8 Purchase Crack development testing equipment 2018/06 2018/08/01 2019/03/15 As per our instruction Head Office installed products purchase General-purpose New installation / To be n one lump 9 Purchase Other test equipment 2018/08 2018/10/01 2018/10/31 set As per our instruction Head Office products purchase installed General-purpose Raman spectrometric appratus To be New installation / 2018/07 10 Purchase 2018/12/01 2018/12/21 n Installments Head Office As per our instruction set installed General-purpose New installation / To be Tensile tester 2018/04 2018/07/24 2018/08/21 Head Office 11 Purchase As per our instruction llset machinery purchase installed General-purpose New installation / To be In one lump Head Office 2018/07 12 Purchase 2018/12/01 2018/12/21 As per our instruction installed machinery purchase To be General-purpose New installation / In one lump 13 Purchase Purchasing portable maintenance equipment 2018/12 2019/03/31 As per our instruction Head Office machinerv purchase delivered In one lump 2018/06 2018/08/01 2019/03/29 Head Office 14 Construction architecture Modifying ice-making coils, etc. of ice thermal storage tank Remake/Repair lset As per our instruction Modification of automatic fire alarm equipment, etc. of the engineering In one lump 15 Construction 2018/04 2018/06/01 2019/03/29 Head Office architecture Remake/Repair 1 set As per our instruction development center analvsis. Outsourcing detailed evaluation of seismic resistance of buildings in In one lump Head Office Other 2018/05 2019/02/22 2018/07/02 hermal power plants against inland earthquake in the metropolitan 16 outsourcing assessment 1 set As per our instruction sum evaluation analysis, Study to improve accuracy of the present seismic resistance In one lump 17 outsourcing 2018/05 2018/07/02 assessment Other 2019/02/22 set As per our instruction Head Office evaluation method evaluation analysis, In one lump Outsoursing research and study on ICT technology 2018/05 2018/07/17 2018/12/21 Head Office 18 outsourcing assessment Other set As per our instruction evaluation analysis, In one lump 2018/08 2018/10/01 2019/03/31 Head Office 19 outsourcing Fact-finding survey on the yield of KK, etc. Other As per our instruction assessment set evaluation analysis, Analysis of self-exited multi-terminal direct current power system using In one lump 2019/02 2019/04/01 2020/02/14 As per our instruction Head Office 20 outsourcing assessment llset PSCAD, EMTDC and RTDS valuation analysis, In one lump Other 2018/06 21 outsourcing Research on new liquefaction testing equipment 2018/08/20 2019/02/22 Head Office assessment As per our instruction evaluation analysis, In one lump 22 outsourcing Fact-finding survey on the yield of 1F, etc. Other 2018/06 2018/08/01 2019/03/31 As per our instruction Head Office ssessment sum evaluation analvsis. In one lump 23 outsourcing assessment Research on measurement method for coefficient of static earth load 2018/06 2018/08/20 2019/02/22 As per our instruction Head Office 1 set evaluation

| No. T | ype of contract |   | Item Name  | Type of work          | Planned Month of<br>Procurement | Date of Delivery<br>(Commencement)<br>yyyy/mm/dd | Date of Delivery<br>(Completion)<br>yyyy/mm/dd | Quantity | unit | Place of Delivery      | Condition of Delivery | Condition of Acceptance | Requesting Office/Station |
|-------|-----------------|---|--|-----------------------|---------------------------------|--|--|----------|------|------------------------|-----------------------|-------------------------|---------------------------|
| 24 ou | tsourcing       | analysis,<br>assessment,<br>evaluation                | Outsoursing analysis of physical property of clinker ash   | Other                 | 2018/04                         | 2018/06/01                                       | 2019/03/20                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 25 ou | tsourcing       | analysis,<br>assessment,<br>evaluation                | Outsourcing study on coal ash treatment technology   | Other                 | 2018/07                         | 2018/09/03                                       | 2019/03/20                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 26 ou | tsourcing       | analysis,<br>assessment,<br>evaluation                | Outsourcing collection and analysis of quality data of coal ash  | Other                 | 2018/04                         | 2018/06/01                                       | 2019/03/20                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 27 ou | tsourcing       | investigation,<br>study                               | Preparation, analysis and study of data to reduce cost   | Other                 | 2018/06                         | 2018/07/23                                       | 2019/03/08                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 28 oı | tsourcing       | investigation,<br>study                               | Taking countermeasures for the aging buildings of substations, etc.  | Other                 | 2018/05                         | 2018/07/02                                       | 2018/12/21                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 29 ou | tsourcing       | investigation,<br>study                               | Study on smart operation of ash disposal field   | Other                 | 2018/06                         | 2018/08/01                                       | 2019/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 30 ou | tsourcing       |   | Outsourcing study for establishing practical design methods for building equipment system (Part 3)   | Other                 | 2018/05                         | 2018/06/01                                       | 2019/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 31 ou | tsourcing       | investigation,<br>study                               | Establishing a method for studying business use of the buildings that our company owns   | Other                 | 2018/04                         | 2018/06/25                                       | 2018/11/16                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 32 ou | tsourcing       | investigation,<br>study                               | Outsourcing study on constructing marine dreding information system  | Other                 | 2018/06                         | 2018/08/06                                       | 2019/03/20                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 33 oı | tsourcing       |   | Research and survey of seismic activity in the Tohoku region and off its Pacic coast (fiscal year 2019)                                    | Other                 | 2019/02                         | 2019/04/01                                       | 2020/03/28                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 34 oı | tsourcing       | design  | Outsourcing design work for modifying air-conditioning equipment, etc. for the low-rise office rooms of the First Research Center building | Remake/Repair         | 2018/04                         | 2018/06/01                                       | 2019/03/08                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 35 oı | tsourcing       | examination and assessment                            | Outsourcing correction of tables of FL, travel expenses and duties   | Other                 | 2018/12                         | 2019/03/01                                       | 2021/03/31                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 36 ou | tsourcing       | preparation and compilation of data                   | Outsourcing management of information of intellectual properties and related work  | Other                 | 2019/02                         | 2019/04/01                                       | 2021/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 37 ou | tsourcing       | preparation and compilation of data                   | 2019 Renewal of standard unit cost of construction   | Other                 | 2018/11                         | 2018/12/15                                       | 2019/03/31                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 38 ou | tsourcing       | preparation and compilation of data                   | Outsourcing construction of data bases of information on harbor equipment technology   | Other                 | 2018/06                         | 2018/07/23                                       | 2019/02/13                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 39 oı | tsourcing       | work (transfer,<br>transporation),<br>etc.            | Hamadori Thermal Power Station (Tomioka Office) : Outsourcing operation of commuter buses  | Other                 | 2018/09                         | 2018/11/01                                       | 2019/10/31                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 40 ou | tsourcing       | examination and measurement of                        | Outsourcing medical examination in the Chiba area  | Other                 | 2018/12                         | 2019/04/01                                       | 2022/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 41 ou | tsourcing       | nhemical fitness<br>examination and<br>measurement of | Outsourcing medical examination: Fukushima   | Other                 | 2018/12                         | 2019/04/01                                       | 2020/03/31                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 42 ou | tsourcing       | examination and measurement of                        | Outsourcing medical examination:Head Office other  | Other                 | 2018/06                         | 2018/10/01                                       | 2019/09/30                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 43 ou | tsourcing       | examination and measurement of                        | Outsourcing medical examination in the areas of Kanagawa, Tama and Yamanashi   | Other                 | 2018/12                         | 2019/04/01                                       | 2022/03/31                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 44 ou | itsourcing      | joint research  | Research on the technology for constructing "electric heat lending platform" with the aim of achieving ZEC                                 | Other                 | 2018/05                         | 2018/06/01                                       | 2019/03/31                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 45 oı | tsourcing       | operation and management                              | Outsourcing cleaning of the general training center  | inspection and repair | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 46 ou | itsourcing      | operation and management                              | Outsourcing replanting flower beds and their maintenance   | inspection and repair | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |
| 47 ou | tsourcing       | operation and management                              | Outsourcing assistance of desk work for the Higashi-Ogu building   | inspection and repair | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1        | set  | As per our instruction |                       | In one lump sum         | Head Office               |

| No. | Type of contract | t Category                  | Item Name   | Type of work | Planned Month of<br>Procurement | Date of Delivery<br>(Commencement)<br>yyyy/mm/dd | Date of Delivery<br>(Completion)<br>yyyy/mm/dd | Quantity unit | Place of Delivery      | Condition of Delivery | Condition of Acceptance | Requesting Office/Station |
|-----|------------------|-----------------------------|---|--------------|---------------------------------|--|--|---------------|------------------------|-----------------------|-------------------------|---------------------------|
| 48  | outsourcing      | operation and management    | Yokosuka Thermal Power Station: Outsourcing security guard  | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 49  | outsourcing      | operation and management    | Hamadoori Thermal Power Station (Tomioka Office): Outsourcing administration of buildings   | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 50  | outsourcing      | operation and management    | Saitama Regional Office other:Outsourcing cleaning of buildings   | Other        | 2018/09                         | 2018/11/01                                       | 2019/10/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 51  | outsourcing      | operation and management    | Yamanashi Regional Office other:Outsourcing cleaning in the premises and of the buildings in the other locations                          | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 52  | outsourcing      | operation and management    | Outsourcing cleaning, building maintenance and building administration for the Kanagawa Regional Office                                   | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 53  | outsourcing      | operation and management    | Kashima Thermal Power Station: Outsourcing security guard   | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 54  | outsourcing      | operation and management    | Outsourcing security guard and disaster prevention for the Kawasaki Thermal Power Station and its construction site                       | Other        | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 55  | outsourcing      | operation and management    | Outsourcing security guard for the Minami Yokohama Thermal Power Station  | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 56  | outsourcing      | operation and management    | Futtsu Thermal Power Station: Outsourcing security guard for the east gate  | Other        | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 57  | outsourcing      | operation and management    | Chiba Thermal Power Station: Outsourcing security guard   | Other        | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 58  | outsourcing      | operation and management    | Hirono Thermal Power Station: Outsourcing work related to general affairs   | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 59  | outsourcing      | operation and management    | Ooi and Shinakawa Thermal Power Station: Outsourcing security guard   | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 60  | outsourcing      | operation and management    | General administration of buildings(Chiba Regional Office)  | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 61  | outsourcing      | operation and management    | Anesaki Thermal Power Station: Outsourcing security guard   | Other        | 2018/10                         | 2018/12/01                                       | 2019/11/30                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 62  | outsourcing      |                             | Outsourcing general administration of the buildings in the service area of the Tochigi Regional Office (Tochigiminami Office.)            | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 63  | outsourcing      | operation and management    | Yokohama Thermal Power Station: Outsourcing housekeeping of buildings   | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 64  | outsourcing      | operation and management    | Outsourcing general administration of the buildings in the service area of the Tochigi Regional Office (Tochigikita Office.)              | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 65  | outsourcing      | operation and management    | Outsourcing security guard  | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 66  | outsourcing      | operation and management    | Outsourcing security guard for the Tokyo area (A block)   | Other        | 2018/05                         | 2018/07/01                                       | 2019/06/30                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 67  | outsourcing      | operation and management    | Sodegaura Thermal Power Station: Outsourcing maintenance of greening construction, etc. (Part 1)  | Other        | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 68  | outsourcing      | operation and<br>management | Outsourcing security guard for the Tokyo area (B block)   | Other        | 2018/05                         | 2018/07/01                                       | 2019/06/30                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 69  | outsourcing      | operation and management    | Outsourcing sorting, pick-up and delivery of internal mails, etc. for the Takeshiba building of the headquarters and Higashi-Ogu building | Other        | 2018/05                         | 2018/07/01                                       | 2019/06/30                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 70  | outsourcing      | operation and<br>management | Outsourcing security guard for the machines of the office buildings for the Tokyo Regional Office   | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 71  | outsourcing      | operation and management    | Outsourcing security guard for the Tokyo Headquarters   | Other        | 2018/05                         | 2018/07/01                                       | 2019/06/30                                     | 1 set         | As per our instruction |                       | In one lump<br>sum      | Head Office               |

| No. T | ype of contract | Category                 | Item Name  | Type of work                | Planned Month of<br>Procurement | Date of Delivery<br>(Commencement)<br>yyyy/mm/dd | Date of Delivery<br>(Completion)<br>yyyy/mm/dd | Quantity | unit | Place of Delivery      | Condition of Delivery | Condition of Acceptance | Requesting Office/Station |
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| 72 o  | utsourcing      | operation and management | Outsourcing security guard for the Tokyo area (D block)  | Other                       | 2018/05                         | 2018/07/01                                       | 2019/06/30                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 73 o  | utsourcing      | operation and management | Outsourcing security guard for the Tokyo area (C block)  | Other                       | 2018/05                         | 2018/07/01                                       | 2019/06/30                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 74 o  | utsourcing      | operation and management | Yokohama other 4 Thermal Power Station: Outsourcing maintenance of greening construction   | Other                       | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 75 o  | utsourcing      | operation and management | Chiba Thermal Power Station:Outsourcing maintenance of greening construction, etc.   | Other                       | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 76 o  | utsourcing      | operation and management | Kashima Thermal Power Station:Outsourcing maintenance of greening construction, etc. on the premises                             | Other                       | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 77 o  | utsourcing      | operation and management | Outsourcing general administration of the buildings in the service area of the Tochigi Regional Office (Utsunomiya Office, etc.) | Other                       | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 78 o  | utsourcing      | •                        | Sodegaura Thermal Power Station: Outsourcing maintenance of greening construction, etc. (Part 2)                                 | Other                       | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 79 o  | utsourcing      | operation and management | Outsourcing security guard for the main building   | Other                       | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 80 o  | utsourcing      | operation and management | Outsourcing cleaning work of buildings of the Gunma Regional Office  | Other                       | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 81 o  | utsourcing      | operation and management | Reception work in the main building  | Other                       | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 82 o  | utsourcing      | operation and management | Administration and operation of information equipment  | Other                       | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 83 o  | utsourcing      | operation and management | Work related to printing, copying and bookbinding  | Other                       | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 84 o  | utsourcing      | operation and management | Outsourcing sorting, pick-up and delivery of internal mails, etc. for the main building of the headquarters, etc.                | Other                       | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1        | set  | As per our instruction | 1                     | In one lump<br>sum      | Head Office               |
| 85 o  | utsourcing      | operation and management | General administration of the building of the Tama Reginal Office  | Other                       | 2019/02                         | 2019/04/01                                       | 2020/03/31                                     | 1        | set  | As per our instruction | 1                     | In one lump<br>sum      | Head Office               |
| 86 o  | utsourcing      | operation and management | Hirono Thermal Power Station: Outsourcing maintenance of greening construction, etc. on the premises                             | Other                       | 2018/08                         | 2018/10/01                                       | 2019/09/30                                     | 1        | set  | As per our instruction | 1                     | In one lump<br>sum      | Head Office               |
| 87 o  | utsourcing      |                          | Research on the method for analysing and evaluating salt damage development mechanism in power culverts                          | New installation / purchase | 2018/06                         | 2018/08/01                                       | 2019/03/31                                     | 1        | set  | As per our instruction | 1                     | In one lump<br>sum      | Head Office               |
| 88 o  | utsourcing      |                          | Research on upgrading basic design method for transmission equipment (Part 2) (experiment)                                       | Other                       | 2018/04                         | 2018/05/16                                       | 2018/12/21                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 89 o  | utsourcing      |                          | Research on upgrading basic design method for transmission equipment (Part 2) (analysis)   | Other                       | 2018/04                         | 2018/05/16                                       | 2018/12/21                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 90 o  | utsourcing      |                          | Research on reinforcement technology to improve bearing strength of existing direct foundation (Part 4)                          | Other                       | 2018/06                         | 2018/07/01                                       | 2019/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 91 o  | utsourcing      | sponsored<br>research    | Research on reforms of work-styles inside buildings  | Other                       | 2018/06                         | 2018/07/17                                       | 2018/12/21                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 92 o  | utsourcing      | sponsored<br>research    | Research on rationalization of specification for building surveillance equipment (Part 3)  | Other                       | 2018/05                         | 2018/07/13                                       | 2019/02/21                                     | 1        | set  | As per our instruction | 1                     | In one lump<br>sum      | Head Office               |
| 93 o  | utsourcing      |                          | Research on technology for modifying a stock of office buildings to convert to ZEB   | Other                       | 2018/05                         | 2018/06/01                                       | 2019/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 94 o  | utsourcing      | sponsored<br>research    | Research on preparing criteria for assessing renewal timing of building equipment (Part 4)                                       | Other                       | 2018/05                         | 2018/06/01                                       | 2019/03/31                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |
| 95 o  | utsourcing      | -                        | Outsoursing research on upgrading use of construction equipment using ICT  | Other                       | 2018/05                         | 2018/07/13                                       | 2019/02/21                                     | 1        | set  | As per our instruction |                       | In one lump<br>sum      | Head Office               |

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|-----|-----------------|-----------------------|--|--------------|---------------------------------|--|--|----------|------|------------------------|---|---------------------------|
| 96  | outsourcing     | sponsored<br>research | Outsoursing research on upgrading use of construction equipment using ICT  | Other        | 2018/05                         | 2018/06/01                                       | 2019/03/31                                     | 1        | set  | As per our instruction | In one lump<br>sum                            | Head Office               |
| 97  | outsourcing     | sponsored<br>research | Research on improving maintenance efficiency through analyzing big data of building maintenance  | Other        | 2018/04                         | 2018/06/01                                       | 2019/02/23                                     | 1        | set  | As per our instruction | In one lump sum                               | Head Office               |
| 98  | outsourcing     | sponsored<br>research | Research on promoting digitalization in maintenance and related work in the civil and construction engineering sector as a part of research on compatibility of work assistance tools (Part 2) |              | 2018/05                         | 2018/07/17                                       | 2019/03/22                                     | 1        | set  | As per our instruction | In one lump sum                               | Head Office               |
| 99  | outsourcing     | sponsored<br>research | Research on labor-saving with construction robots  | Other        | 2018/04                         | 2018/05/21                                       | 2019/01/25                                     | 1        | set  | As per our instruction | In one lump<br>sum                            | Head Office               |
| 100 | outsourcing     | sponsored<br>research | Technology for upgrading automatic evaluation technique on variation and deformation by using image analysis technology  | Other        | 2018/06                         | 2018/08/06                                       | 2019/02/22                                     | 1        | set  | As per our instruction | In one lump sum                               | Head Office               |
| 101 | outsourcing     | sponsored<br>research | Research and survey of seismic activity of the fault of the western rim of the Nagaoka Plain   | Other        | 2019/02                         | 2019/04/01                                       | 2020/03/28                                     | 1        | set  | As per our instruction | In one lump sum                               | Head Office               |
| 102 | outsourcing     | sponsored<br>research | Research on upgrading evaluation of seismic movement caused by earthquakes that occurred nearby (Part 3)   | Other        | 2018/05                         | 2018/07/02                                       | 2019/03/28                                     | 1        | set  | As per our instruction | In one lump sum                               | Head Office               |
| 103 | outsourcing     | sponsored<br>research | Research on methods for assessing plasticity of office buildings (Part 4)  | Other        | 2018/04                         | 2018/07/02                                       | 2019/03/28                                     | 1        | set  | As per our instruction | In one lump sum                               | Head Office               |