6/24/2020

**Bangladesh National Museum (BNM)**

**Report Submitted To**

|  |  |
| --- | --- |
| ***Md. Mahabubur Rahman***  ***Executive Engineer***  Dhaka PWD Division-4  Executive Engineer Office  Public Works Department  Ministry of Housing and Public Works  Peoples Republic of Bangladesh. | C:\Users\DELL\Desktop\Feasibility Study\untitled-1_42.png |

**Feasibility Study**

**on**

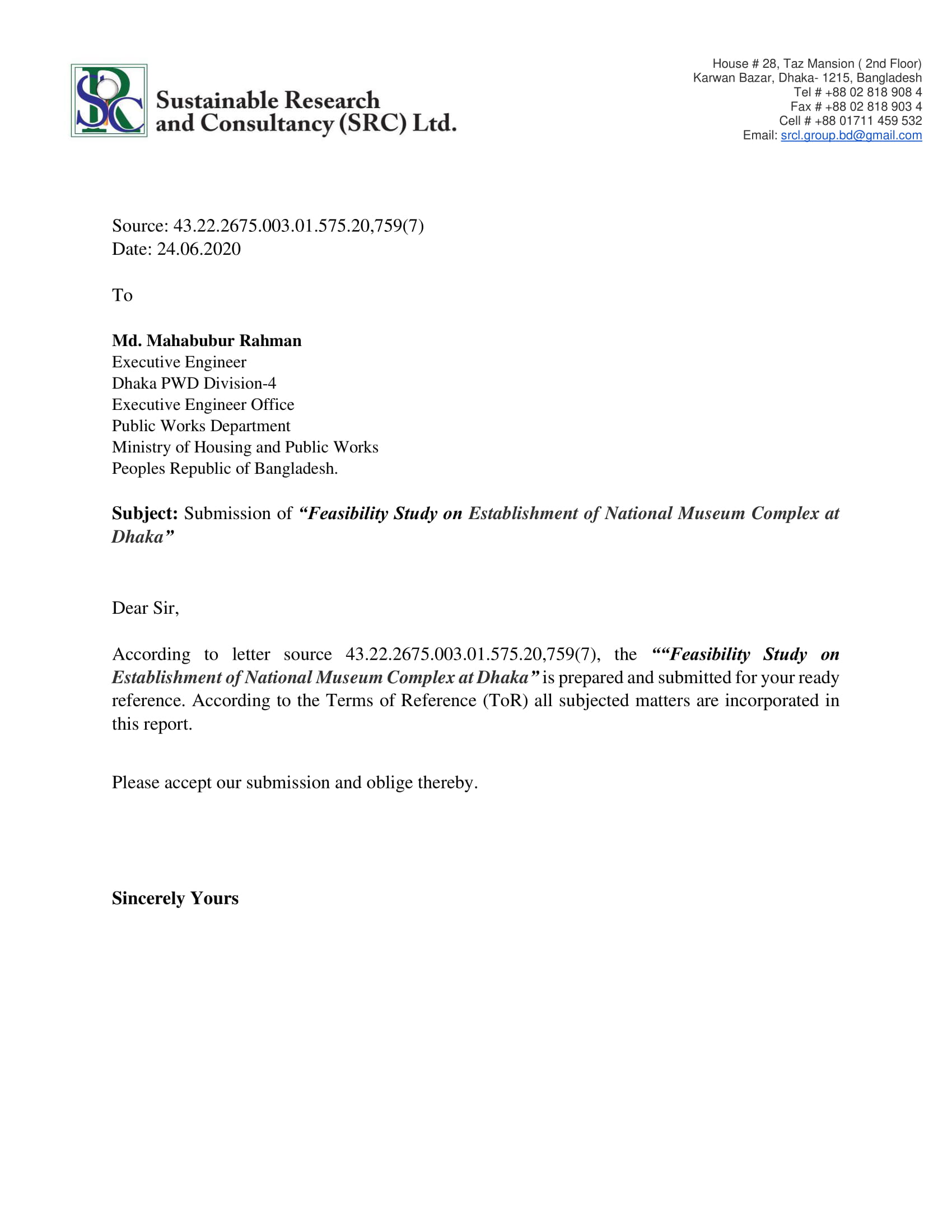
***“Establishment of National Museum Complex at Dhaka”***

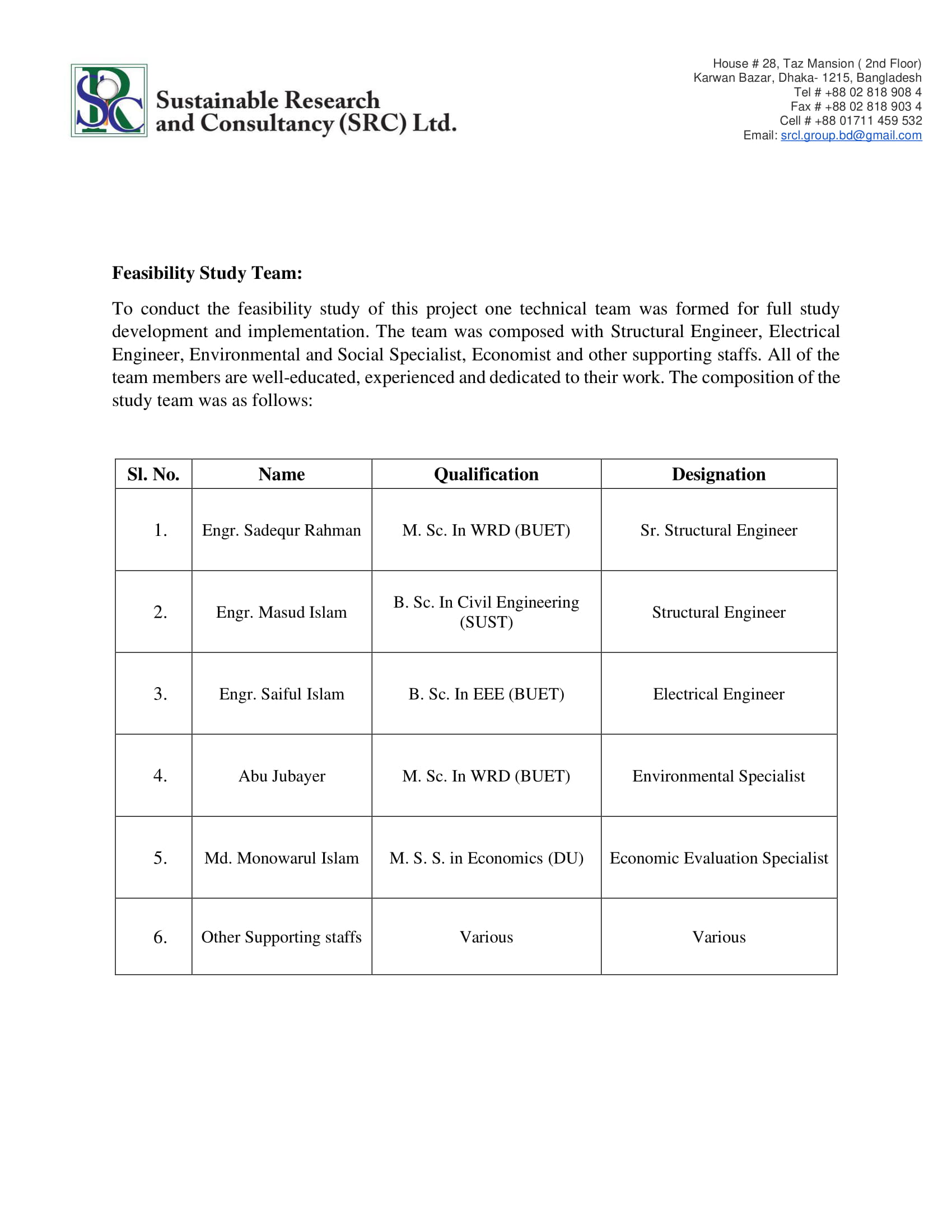
**Report Prepared By**

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|  |  |

Abu Jubayer

[company name]

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**m~wPcÎ**

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# 1. f‚wgKvt

evsjv‡`k RvZxq Rv`yNi evsjv‡`‡ki wkí, ms¯‹…wZ, BwZnvm I HwZn¨ msiÿY Ges me©mvaviY‡K Zv cÖ`k©‡bi Rb¨ `vwqZ¡cÖvß GKwU RvZxq cÖwZôvb| we‡klZt miKvwi D‡`¨v‡M wKsev Ab¨vb¨ M‡elYvi d‡j Avwe¯‹…Z cÖZœZvwË¡K wb`k©b Ges evsjv‡`‡ki m„wó-c~e© I m„wó-cieZ©x BwZnvm I HwZn¨mg~n msiÿY I cÖ`k©b Kiv G cÖwZôv‡bi Ab¨Zg ¸iæZ¡c~Y© KvR| G Kv‡R AeKvVv‡gvmn Ab¨vb¨ myweavw` e„w×KiY GKwU Ae¨vnZ cÖwµqv| †m cÖwµqvi Ask wn‡m‡e A\_©vr RvZxq Rv`yN‡ii we`¨gvb feb wb`k©bmg~n msiÿ‡Yi ¯’vb msKzjvb bv nIqvq bZzb feb wbg©vY Ges we`¨gvb fe‡bi Avf¨šÍixY M¨vjvwi I wgjbvqZ‡bi cybwe©b¨vm Kiv GKvšÍfv‡e Riæwi n‡q c‡o‡Q| G Qvov †`k I RvwZi `c©Y wn‡m‡e evsjv‡`k RvZxq Rv`yN‡ii ewnivsM‡bi bv›`wbKZv e„w× KiviI cÖ‡qvRb c‡o‡Q|

# 2. cUf‚wgt

RvZxq Rv`yNi cÖKíwU 1975 mv‡ji 27 wW‡m¤^i Aby‡gvw`Z nq| 1983 mv‡ji 20 †m‡Þ¤^i RvZxq Rv`yNi Aa¨v‡`k Rvwi Kiv nq| 1983 mv‡ji 17 b‡f¤^i AvbyôvwbKfv‡e evsjv‡`k RvZxq Rv`yN‡ii D‡Øvab Kiv nq| W. Gbvgyj nK evsjv‡`k RvZxq Rv`yN‡ii cÖ\_g gnvcwiPvjK wn‡m‡e wbhy³ †nvb| evsjv‡`k RvZxq Rv`yN‡ii cÖavb febwU 4\_© Zjv wewkó hvi Zjvi †gvU †ÿÎdj 202116 eM©dzU| 1913 mv‡j GKwU Kÿ †\_‡K ïiæ Kiv msMÖnkvjvwU AvR `wÿY Gwkqvi e„nËg Rv`yN‡i cwiYZ n‡q‡Q| GB PviZjv wewkó AeKvVv‡gv‡Z Awdmmn 2wU AwWUwiqvg, 1wU A¯’vqx cÖ`k©bx nj, 15wU wb`k©b †mŠa I Ab¨vb¨ †÷vi, j¨ve‡iUwimn 45wU M¨vjvwi i‡q‡Q| M¨vjvwi¸‡jv‡Z cÖvq 5,000 wb`k©b `k©K‡`i Rb¨ cÖ`wk©Z n‡”Q| evwK wbk©b¸‡jv cÖ`k©‡bi RvqMvi ¯^íZvi Kvi‡Y †÷v‡i msiÿY Ki‡Z n‡”Q| GQvov †÷vi¸‡jv A‡bK w`‡bi cyivZb nIqvq weiæc cwi‡e‡ki Kvi‡Y wb`k©b¸‡jv ÿwZMÖ¯’ n‡”Q| M‡o cÖwZw`b wb‡¤œ cÖvq 3000 `k©K Rv`yNi cwi`k©‡b Av‡m hv c~‡e©i Zzjbvq A‡bK ‡ewk| †KvbI †KvbI we‡kl w`‡b GB msL¨v 05 †\_‡K 20 nvRv‡i DbœxZ nq| Rv`yN‡ii cÖPvi cÖPviYv e„w× cvIqvq w`b w`b `k©‡Ki msL¨v e„w× cv‡”Q| evsjv‡`k RvZxq Rv`yN‡i cÖvq 95,000 wb`k©b i‡q‡Q| Ach©vß M¨vjvwii Kvi‡Y gnvg~j¨evb wb`k©bmg~n cÖ`k©b Kiv hv‡”Q bv| evsjv‡`‡ki ms¯‹…wZ, BwZnvm I HwZn¨ msiÿ‡Yi I cÖ`k©‡bi Rb¨ we`¨gvb fe‡bi Avf¨šÍixY M¨vjvwi I wgjbvqZ‡bi m¤úªmviY Ges bZzb feb wbg©vY Kiv GKvšÍ Riæix n‡q c‡o‡Q|

# 3. b¨vh¨Zv cÖwZcv`bt

1983 mv‡j cÖwZwôZ Rv`yN‡ii eZ©gvb febwU ms¯‹vi ev AvaywbKvqb Kivi Rb¨ MZ cqwÎk eQ‡i †Kvbiæc mvgwMÖK cÖKí MªnY Kiv nqwb| wewfbœ mg‡q †h me mgm¨v †`Lv w`‡q‡Q Zv mvgwqKfv‡e mgvavb Kiv n‡q‡Q| d‡j Rv`yN‡ii ˆ`bw›`b `vßwiK KvR cwiPvjbvq weNœZvi m„wó n‡”Q| GQvovI Rv`yN‡i Rbej msL¨v c~‡e©i †P‡q A‡bK e„w× †c‡q‡Q, wKš‘ H Zzjbvq †Kvb bZzb Awdm/cÖkvmwbK feb wbg©vY Kiv nqwb| eZ©gv‡b evsjv‡`k RvZxq Rv`yN‡ii wbqš¿Yvaxb 07wU kvLv Rv`yNi Pvjy i‡q‡Q| GQvovI Av‡iv bZzb bZzb Rv`yNi cÖwZôvi j‡ÿ¨ fwel¨r cwiKíbv i‡q‡Q| Rv`yN‡ii Kg©-cwiwa c~‡e©i Zzjbvq eû¸Y e„w× †c‡q‡Q| Rv`yN‡ii cÖavb feb †\_‡K Awdm, wb`k©b †÷vi, AwWUwiqvg¸‡jv cÖ¯ÍvweZ bZzb fe‡b ¯’vbvšÍi Kiv n‡j Rv`yN‡ii M¨vjvwii msL¨v e„w× cv‡e| G‡Z msiwÿZ wb`©kb¸‡jv cÖ`k©b Kiv m¤¢e n‡e| d‡j evsjv‡`k RvZxq Rv`yN‡ii BwZnvm I HwZn¨‡K Av‡iv e¨vcK cwim‡i I `w„ób›`bfv‡e cÖ`k©b Kivi my‡hvM ˆZwi n‡e Ges Rv`yN‡ii cÖkvmwbK Kv‡Ri MwZ I `ÿZv e„w× cv‡e|

gvbbxq cÖavbgš¿xi wb‡`©k ev¯Íevq‡bi j‡ÿ¨ ms¯‹…wZ welqK gš¿Yvjq KZ…©K cÖ¯ÍvweZ fe‡bi ¯’vcZ¨ bK&kv cÖYq‡bi Rb¨ BÝwUwUDU Ae AvwK©‡U±, evsjv‡`k (IAB) Gi mv‡\_ mg‡SvZvcÎ ¯^vÿi Kiv nq| mg‡SvZvc‡Îi Av‡jv‡K Db¥y³ cÖwZ‡hvwMZv Avn¦vb K‡i cÖvß bK&kvmg~n n‡Z Rywi †ev‡W©i gva¨‡g cÖ\_g, wØZxq I Z…Zxq ¯’vb AwaKvixi bK&kv wbe©vPb Kiv nq| AZtci cÖ\_g wbe©vwPZ bK&kvwU gvbbxq cÖavbgš¿x‡K †`Lv‡bv nq| G wel‡q gvbbxq cÖavbgš¿xi wKQz ch©‡eÿY Abyhvqx cÖ‡qvRbxq cwigvR©b †k‡l ms¯‹…wZ welqK gš¿Yvjq KZ…©K P~ovšÍ bK&kv Aby‡gv`b n‡j MYc~Z© wefvM KZ…©K e¨q-cÖv°jb ˆZwi Kiv nq| Òevsjv‡`k RvZxq Rv`yN‡ii AvaywbKvqb I 3wU †eBR‡g›Umn 13Zjv feb wbg©vYÓ kxl©K cÖKí 14B ‡g, 2019 Zvwi‡Li cÖKí hvPvB KwgwUi mfvq M„nxZ nq| wbg©vY Kv‡Ri e¨q-cÖv°jb I AvaywbK myweavw` AšÍf~©³ K‡i evsjv‡`k RvZxq Rv`yNi Ges MYMÖš’vMvi Awa`ßi ¯^-¯^ cÖwZôvb KZ…©K c„\_K wWwcwc cÖ¯Íve ˆZwii wm×všÍ cÖ`vb Kiv nq (cwiwkó-1 `ª:)|

evsjv‡`k RvZxq Rv`yNi, MYMÖš’vMvi Awa`ßi Ges RvZxq MÖš’‡K›`ª ms¯‹…wZ welqK gš¿Yvjqvaxb wZbwU cÖwZôvb Aby‡gvw`Z ¯’vcZ¨ bKkvi Av‡jv‡K wm×všÍK…Z `yÕwU cÖK‡íi GKwU‡Z \_vK‡e MYMÖš’vMvi Awa`ßi I RvZxq MÖš’‡K›`ª Ges Ab¨wU‡Z \_vK‡e RvZxq Rv`yNi feb wbg©v‡Yi ms¯’vb| P~ovšÍK…Z bKkv Abyhvqx B‡Zvg‡a¨ MYc~Z© Awa`ßi KZ…©K wbg©vY Kv‡Ri e¨q-cÖv°jb Kiv n‡q‡Q|

# 4. cÖK‡íi g~j AvDUcyUt

cÖKíwUi mdj ev¯Íevqb n‡j Gi g~j AvDUcyU n‡e wb¤œiæct

* 01wU wØZj I 02wU 6Zjv wewkó feb wbg©vY
* 02wU †eR‡g›Umn 13Zjv wewkó feb wbg©vY
* Rv`yN‡ii we`¨gvb cÖavb feb ms¯‹vi
* 02wU wRc Mvwo, 01wU åvg¨gvb evm, 01wU ¯‹zj evm, I 01wU gvB‡µvevm µq
* AvmevecÎ µq
* M¨vjvwi mw¾ZKiY I wb`k©b µq

# 5. cÖK‡íi †fŠMwjK Ae¯’vbt

cÖKíwU XvKv †Rjvi AšÍ©MZ kvnevM \_vbvi wecixZ cv‡k^© Aew¯’Z| GwUi mwVK Ae¯’vb 23044.25` Dt Ges 90023.67` c~t| cÖKíwU †ek K‡qKwU ¸iæZ¡c~Y© ¯’vcbv Øviv cwi‡ewóZ hvi g‡a¨ evi‡Wg nvmcvZvj, e½eÜz †kL gywRe nvmcvZvj, mywdqv Kvgvj RvZxq MYMÖš’vMvi, cvVK mgv‡ek †K›`ª, AvwRR mycvi gv‡K©U Ab¨Zg| GmKj ¯’vcbv¸‡jv kvnevM ¯‹qv‡ii Pvicvk Ry‡o Aew¯’Z|



**RvZxq Rv`yNi Kg‡cø·, XvKv cÖK‡íi Ae¯’vb**

**d‡Uvt ¸Mj g¨v‡c cÖKíwUi eZ©gvb Ae¯’vb**





**d‡Uvt kvnevM RvZxq Rv`yN‡ii eZ©gvb Ae¯’v (ewnivsMb)**

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**d‡Uvt RvZxq Rv`yN‡ii Avf¨šÍixY wb`k©b (¯^vaxbZv msMÖvg I e½eÜz cÖwZdjK)**

|  |
| --- |
| **F:\My Business\Feasibility Study of Public Library-20200822T064852Z-001\Final Folder\Feasibility Study-20200905T120136Z-001\Feasibility Study\National Museum\National Museum-20200906T071452Z-001\National Museum\04.jpg** |
|  |
| **F:\My Business\Feasibility Study of Public Library-20200822T064852Z-001\Final Folder\Feasibility Study-20200905T120136Z-001\Feasibility Study\National Museum\National Museum-20200906T071452Z-001\National Museum\03.jpg** |
| **d‡Uvt RvZxq Rv`yN‡ii Avf¨šÍixY wb`k©b (wek^mf¨Zv I evsjv‡`‡ki †bŠKv)** |

# 6. cÖK‡íi AeKvVv‡gvMZ m¤¢ve¨Zvt

cÖKíwUi wbg©vY I Dbœqb mvgwMÖKfv‡e cvuPwU c¨v‡K‡R wef³| c¨v‡KR¸‡jv njt G‡b· fe‡bi wbg©vY, we`¨gvb fe‡bi ms¯‹vi, gnvcwiPvj‡Ki evmfeb wbg©vY, Kg©KZ©v‡`i AvevwmK feb wbg©vY, Ges Kg©Pvix‡`i AvevwmK feb wbg©vY|

|  |  |
| --- | --- |
| **cÖK‡íi AeKvVv‡gvMZ mvims‡ÿc** | |
| cÖKí GjvKv : 350840 dzU |  |
| MÖxY Gwiqv : 52400 dzU |  |
| Rjvavi : 75919 dzU |  |
|  |  |
| **cÖK‡íi ˆewkó¨mg~nt**   * we`¨gvb Rv`yN‡ii AvaywbKvqb * 03wU †eR‡g›Umn 01wU 12 Zjv G‡b· feb wbg©vY * cÖKí GjvKvi †mŠ›`h©¨ e„w×‡Z j¨vÛ¯‹¨vwcs I Rjvavi wbg©vY * AwWUwiqvg wbg©vY * 06 Zjv wewkó AvevwmK feb I wØZj wWwR feb wbg©vY | |

## 6.1 G‡b· fe‡bi wbg©vYt

GB febwU we‡kl †kÖYxi AbvevwmK fe‡bi AšÍf‚©³| Gi KvVv‡gv 1:1.25:2.5 KswµUmn (†÷vb wPc&m) Aviwmwm †d«‡g wbwg©Z n‡e| cÖKíwU P‚ovšÍ ch©v‡q 2wU †eR‡g›Umn 15 Zjv fe‡b cwiYZ n‡e| Gi wfwË n‡e cvBj wewkó Ges Gi e¨q-cÖv°jb nvi wba©vwiZ n‡q‡Q wcWweøDwW wkwWDj †iU, 2018 Abyhvqx|

**G‡b· fe‡bi myweavw`t**

* 03wU †eR‡g›U †d¬v‡i 120wU cvwK©s‡qi mye¨e¯’v
* 3q †eR‡g›U †d¬v†i 250 Avmb wewkó AwWUwiqvg
* MÖvDÛ †d¬v†i e¨vsK, wWcvU©‡g›Uvj †÷vi
* 1g, 2q, 3q I 4\_© Zjvq WiwgUix, AwWUwiqvg (150 Avmb) AvU© M¨vjvix, wKD‡iUi Awdm, cÖkvmwbK Awdm, cvVK mgv‡ek, AvBwU Kbdv‡iÝ iæg, cÖ‡KŠkj kvLv BZ¨vw`i ms¯’vb n‡e
* 5g Zjvq evwYwR¨K ¯’vcbv, 6ô Zjvq †W-‡Kqvi †m›Uvi, wPwKrmv †K›`ª, dzW †KvU© \_vK‡e
* 7g I 8g Zjvq History Store I Tall Store \_vK‡e
* 9g I 10g Zjvq National History Division Gi Awdm I Store \_vK‡e
* 11 Zjvq Chemistry Division Office, j¨ve‡iUix I †÷vi, Contemporary Art and Civilization Gi Awdm \_vK‡e
* 12 Zjvq jvB‡eªix \_vK‡e

**cÖKíwUi cÖhyw³MZ wbg©vY ˆewkó¨ wb¤œiæc:**

|  |  |  |
| --- | --- | --- |
| Building Type | **:** | Non-Residential |
| Building Category | **:** | Special |
| Type of Structure | **:** | RCC Frame Structure with 1:1.25:2.5 Concrete (Stone Chips) |
| Foundation For | **:** | 15-Storey including 2 Basements |
| Foundation Type | **:** | Pile Foundation |
| Basis of Estimate | **:** | PWD Schedule of rates 2018 |
| To Be Constructed | **:** | 15-Storey including 2 Basements |
| Plinth Area | **:** | 507110.00 sft / 47111.67 sqm |

## 6.2 we`¨gvb Rv`yN‡ii AvaywbKvqbt

GB febwU we‡kl †kÖYxi AbvevwmK fe‡bi AšÍf‚©³| Gi KvVv‡gv 1:1.25:2.5 KswµUmn (†÷vb wPc&m) Aviwmwm †d«‡g wbwg©Z n‡e| wewfbœ ai‡bi cÖvPxb I cÖZœZvwË¡K mvgMÖx QvovI Ab¨vb¨ g~j¨evb e¯‘i ms¯’vb NUv‡bvi Rb¨ cwiKíbv Abymv‡i 1g †\_‡K 4\_© ch©šÍ cÖwZwU Zjv‡ZB AvaywbKvqb Kiv n‡e (cwiwkó 2 `ªóe¨)| Gi e¨q-cÖv°jb nvi wba©vwiZ n‡q‡Q wcWweøDwW wkwWDj †iU, 2018 Abyhvqx|

**Rv`yN‡ii AvaywbKvqbt**

* wewfbœ †d¬v‡i M¨vjvix ‡¯úm e„w× = 47,970 eM©dzU
* mvwf©m Gwiqv e„w× = 8050 eM©dzU
* RvZxq Rv`yN‡ii AvaywbKvq‡bi d‡j M¨vjvix msL¨v 45wU †\_‡K e„w× †c‡q 60wU n‡e
* `k©bv\_©x‡`i myweavi Rb¨ bZzb 2wU wmwo ms‡hvRb Kiv n‡e
* M¨vjvixmg~n AvšÍR©vwZK gv‡b DwbœZ Ki‡Z we`¨gvb mKj M¨vjvixi Avf¨šÍixY mvRm¾v cwieZ©bmn, AZ¨vaywbK jvBwUs, Air Conditioning, Plumbing, Security System BZ¨vw` ms‡hvRb Kiv n‡e
* Rv`yN‡ii evwn¨K †mŠ›`h©¨ e„w×‡Z Facade Treatment, Landscaping, we`¨gvb Rjvk‡qi cybtLbb I Pvicv‡k IqvKI‡q wbg©vY Kiv n‡e
* GQvovI 750 Avmb wewkó GKwU AwWUwiqvg wbg©vY Kiv n‡e

**cÖKíwUi cÖhyw³MZ wbg©vY ˆewkó¨ wb¤œiæc:**

|  |  |  |
| --- | --- | --- |
| Building Type | **:** | Non-Residential |
| Building Category | **:** | Special |
| Type of Structure | **:** | RCC Frame Structure with 1:1.25:2.5 Concrete (Stone Chips) |
| Basis of Estimate | **:** | PWD Schedule of rates 2018 and Analysis rates |

## 6.3 gnvcwiPvj‡Ki feb wbg©vYt

GB febwU we‡kl †kÖYxi AvevwmK fe‡bi AšÍf‚©³| Gi KvVv‡gv 1:1.5:3 KswµUmn (†÷vb wPc&m) Aviwmwm †d«‡g wbwg©Z n‡e| gnvcwiPvj‡Ki emev‡mi Rb¨ febwU we‡klfv‡e wbg©vY Kiv n‡e hv n‡e AZ¨vaywbK my‡hvMmyweavm¤úbœ| febwU n‡e wØZj Ges Gi wfwË n‡e cvBj wewkó| wcøš’ Gwiqv (¯Í¤¢g~j) n‡e me©‡gvU 3970.00 eM©dzU ev 368.82 eM©wgUvi| febwUi e¨q-cÖv°jb nvi wba©vwiZ n‡q‡Q wcWweøDwW wkwWDj †iU, 2018 Abyhvqx|

**cÖKíwUi cÖhyw³MZ wbg©vY ˆewkó¨ wb¤œiæc:**

|  |  |  |
| --- | --- | --- |
| Building Type | **:** | Residential |
| Building Category | **:** | Special |
| Type of Structure | **:** | RCC Frame Structure with 1:1.5:3 Concrete (Stone Chips) |
| Foundation For | **:** | 2-Storey |
| Foundation Type | **:** | Pile Foundation |
| Basis of Estimate | **:** | PWD Schedule of rates 2018 |
| To Be Constructed | **:** | 2-Storey |
| Plinth Area | **:** | 3970.00 sft / 368.82 sqm |

## 6.4 Kg©KZ©v‡`i AvevwmK feb wbg©vYt

GB febwU cÖ\_g †kÖYxi AvevwmK fe‡bi AšÍf‚©³| Gi KvVv‡gv 1:1.5:3 KswµUmn (†÷vb wPc&m) Aviwmwm †d«‡g wbwg©Z n‡e| Rv`yN‡ii Kg©KZ©v‡`i emev‡mi Rb¨ AvaywbK myweavw`i mgš^q K‡i febwU wbwg©Z n‡e| febwU n‡e 06 Zjv Ges Gi wfwË n‡e cvBj wewkó| wcøš’ Gwiqv (¯Í¤¢g~j) n‡e me©‡gvU 18350.00 eM©dzU ev 1704.76 eM©wgUvi| febwUi e¨q-cÖv°jb nvi wba©vwiZ n‡q‡Q wcWweøDwW wkwWDj †iU, 2018 Abyhvqx|

**06 Zjv wewkó AvevwmK feb wbg©vY**

* we`¨gvb 04 Zjv wewkó feb †f‡½ 06 Zjv wewkó feb wbg©vY Kiv n‡e
* wbwg©Ze¨ 06 Zjv AvevwmK fe‡b d¬¨vU msL¨v n‡e-

700 eM©dzU = 20 wU

1000 eM©dzU = 05 wU

1200 eM©dzU = 05 wU

**me©‡gvU = 30 wU**

**cÖKíwUi cÖhyw³MZ wbg©vY ˆewkó¨ wb¤œiæc:**

|  |  |  |
| --- | --- | --- |
| Building Type | **:** | Residential |
| Building Category | **:** | Super |
| Type of Structure | **:** | RCC Frame Structure with 1:1.5:3 Concrete (Stone Chips) |
| Foundation For | **:** | 6-Storey |
| Foundation Type | **:** | Pile Foundation |
| Basis of Estimate | **:** | PWD Schedule of rates 2018 |
| To Be Constructed | **:** | 6-Storey |
| Plinth Area | **:** | 18350.00 sft / 1704.76 sqm |

## 6.5 Kg©Pvwi‡`i AvevwmK feb wbg©vYt

GB febwUI cÖ\_g †kÖYxi AvevwmK fe‡bi AšÍf‚©³| Gi KvVv‡gv 1:1.5:3 KswµUmn (†÷vb wPc&m) Aviwmwm †d«‡g wbwg©Z n‡e| Rv`yN‡ii Kg©Pvwi‡`i emev‡mi Rb¨ AvaywbK myweavw`i mgš^q K‡i febwU wbwg©Z n‡e| febwU n‡e 06 Zjv Ges Gi wfwË n‡e cvBj wewkó| wcøš’ Gwiqv (¯Í¤¢g~j) n‡e me©‡gvU 19750.00 eM©dzU ev 1834.82 eM©wgUvi| febwUi e¨q-cÖv°jb nvi wba©vwiZ n‡q‡Q wcWweøDwW wkwWDj †iU, 2018 Abyhvqx|

**cÖKíwUi cÖhyw³MZ wbg©vY ˆewkó¨ wb¤œiæc:**

|  |  |  |
| --- | --- | --- |
| Building Type | **:** | Residential |
| Building Category | **:** | Super |
| Type of Structure | **:** | RCC Frame Structure with 1:1.5:3 Concrete (Stone Chips) |
| Foundation For | **:** | 6-Storey |
| Foundation Type | **:** | Pile Foundation |
| Basis of Estimate | **:** | PWD Schedule of rates 2018 |
| To Be Constructed | **:** | 6-Storey |
| Plinth Area | **:** | 19750.00 sft / 1834.82 sqm |

RvZxq Rv`yNi Ges MYMÖš’vMvi Awa`ßi mgwš^Z Kg‡cø‡·i cÖhyw³MZ Ges AeKvV‡gvMZ bKkv KvVv‡gvMZfv‡e wbivc` Ges cÖhyw³MZfv‡e myiwÿZ (cwiwkó-1 `ªóe¨)| cÖKíwU KZ©„c‡ÿi wbR¯^ Rwg‡Z ev¯ÍevwqZ n‡e, djkÖæwZ‡Z f‚wg AwaMÖnYmn Ab¨vb¨ Kg©Kv‡Ð †Kvb mgm¨v n‡e bv| eZ©gv‡b D³ cÖKí GjvKvq Av‡iv K‡qKwU †gMv wewìs cÖKí i‡q‡Q| hvi Kvi‡Y GB bZzb febwU AÎ AÂ‡j GKwU wbivc` KvVv‡gv wn‡m‡e cwijwÿZ n‡e (cwiwkó-1 `ªóe¨)|

# 7. cwi‡ekMZ cÖfve g~j¨vqbt

## 7.1 m¤¢ve¨ cÖwZK~j cÖfvet

cÖKí wbg©v‡Yi mgq cÖavbZ evqy gvb †fŠZ cwi‡ekMZ †bwZevPK cÖfvemg~‡ni g‡a¨ Dcw¯’Z n‡Z cv‡i| wbg©vY cieZ©x Kvh©µ‡gi mgq evqy gv‡bi Dci †bwZevPK cÖfve¸wj hvbevn‡bi wb®‹vkb wbM©gbKvix `~wlZ c`v\_© †\_‡K D™¢‚Z n‡Z cv‡i| djkÖæwZ‡Z evq~ ¯^í AvKv‡i `~wlZ n‡Z cv‡i| wbg©vY Kv‡Ri mgq kã ¯Í‡ii Dci wKQzUv cÖfve co‡Z cv‡i| MvQcvjv ‡K‡U †djvi Kvi‡Y ˆRweK cwi‡e‡ki DciI wKQzUv cÖfve co‡Z cv‡i|

## 7.2 cÖkgb e¨e¯’vt

ï®‹ ‡gŠmy‡g Kv‡Ri cwiwa Kgv‡Z n‡e| a~wjKYvi SzuwK Kgv‡Z ch©vß cvwb wQUv‡Z n‡e Ges kã `~lY Kgv‡Z h\_vm¤¢e Kg hš¿cvwZ e¨envi Ki‡Z n‡e| mvBU cwi`k©b, wbg©vY K¨v‡¤úi mvgwMÖK Ae¯’v, f-‚Dcwi¯’ cvwbi gvb, cwi‡ek Awa`ßi KZ©„K cÖ¯ÍvweZ c×wZ Abymv‡i BU, weUzwgb I wm‡g›U myweav Z`viwK, kã I K¤úb hvPvB Ges ¯^v¯’¨ I wbivcËv welqvw` h\_vh\_fv‡e ch©‡eÿY Ki‡Z n‡e|

## 7.3 cwi‡ek e¨e¯’vcbv cwiKíbvt

cÖKí wewbg©vY Ges cwiPvjbv ch©v‡q †KvbiKg weiæc cÖfve Gov‡Z cwi‡ek e¨e¯’vcbv cwiKíbv MÖnY Kiv nq hv cÖK‡íi cwi‡ekMZ weavb Ges h\_vh\_ e¨e¯’vcbv wbwðZ K‡i|

* AwaKvsk †ÿ‡ÎB m¤¢ve¨ cÖfve¸wj ¯^í-‡gqvw` Ges †MŠY cÖK…wZi| cÖ¯ÍvweZ cÖkgb c`‡ÿc MÖnY Ges cwi‡ek e¨e¯’vcbv cwiKíbvi mwVK ev¯Íevq‡bi gva¨‡g cÖZ¨vwkZ cÖwZK‚j cÖfve¸wj e¨vcKfv‡e wbqš¿Y, n«vm ev `~wif‚Z Kivi e¨e¯’v MÖnY Ki‡Z n‡e|
* cwi‡ekMZ myweavi w`K †\_‡K cÖKíwUi cÖ¯ÍvweZ Ae¯’vb MÖnY‡hvM¨|

# 8. cwiPvjbv I iÿYv‡eÿYt

cÖK‡íi `xN© mg‡qi ¯’vwqZ¡ Ges cwi‡levw` wbwðZKi‡Yi j‡ÿ¨ g~j cÖK‡íi wewfbœ Dcv`vb, cwi‡lev I cÖKí KvVv‡gv cwiPvjbv Ges iÿYv‡eÿY GKwU ¸iæZ¡c~Y© Kvh©µg wn‡m‡e we‡ewPZ n‡e| D³ Kvh©µ‡gi g‡a¨ mvßvwnK ev gvwmK wfwË‡Z iæwUb gvwdK cwi`k©b, `yÕeQi ci mvaviY cwi`k©b Ges cÖwZ cvuP eQi AšÍi AšÍi g~L¨ Z`viwK AšÍf‚©³ \_vK‡e|

# 9. A\_©‰bwZK g~j¨vqbt

## 9.1 cÖK‡íi mvgwMÖK A\_©‰bwZK g~j¨vqbt

cÖKíwU g~j¨vwqZ n‡q‡Q Gi wewfbœ Dc`vb hvPvB-evQvBKiY Ges wewfbœ kZ©mg~‡ni b¨vh¨Zv cÖw`cv`‡bi gva¨‡g| cÖKíwUi mvwe©K wbg©vYKvR 17wU wfbœ wfbœ Kg©Kv‡Ði Øviv wef³| GB wfwË cÖK‡íi mvwe©K e¨q n‡e 52418.53 jÿ UvKv gvÎ| cÖKíwUi cÖwZwU †mM‡g›U eZ©gvb evRvi g~‡j¨i mv‡\_ b¨vqm½Z| †mM‡g›U¸‡jv wb¤œiæc:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl No.** | **Description of Items** | **Unit** | **Area (Sqm)** | **Estimated Cost in Taka** | **Rate per Unit** |
| 01 | Construction of Annex Building | Sqm | 47111.67 | Tk. 2771845734.62 | Tk. 58835.65 |
| 02 | External Electrification | Job | 27.00 | Tk. 601400000.00 |  |
| 03 | Renovation of Existing Museum | Job | 1.00 | Tk. 1397333289.00 |  |
| 04 | External Electrification | Job | 4.00 | Tk. 231500000.00 |  |
| 05 | Director General Residence | Sqm | 368.82 | Tk. 18365145.31 | Tk. 49794.06 |
| 06 | Officers Residential Building | Sqm | 1704.76 | Tk. 61591916.85 | Tk. 36129.45 |
| 07 | Staff Residential Building | Sqm | 1834.82 | Tk. 65661273.44 | Tk. 35786.23 |
| 08 | Under Ground Water Reservoir | Gal | 100000 | Tk. 7700000.00 | Tk. 77.00 |
| 09 | Sinking of 6-inch Deep Tube Well | Job | 1.00 | Tk. 9302042.06 | Tk. 9302042.06 |
| 10 | Construction of Compound Drain | Sqm | 304.07 | Tk. 1484175.09 | Tk. 4881.00 |
| 11 | Approach Road | Sqm | 743.22 | Tk. 2043849.87 | Tk. 2750.00 |
| 12 | RCC Boundary Wall | Rm | 761.96 | Tk. 12625467.68 | Tk. 16569.66 |
| 13 | Sewerage Treatment Plant | Job | 1.00 | Tk. 50000000.00 | Tk. 50000000.00 |
| 14 | Soil Investigation, Digital Survey, PDA Test | Job | 1.00 | Tk. 2500000.00 | Tk. 2500000.00 |
| 15 | Testing of Materials | Job | 1.00 | Tk. 1000000.00 | Tk. 1000000.00 |
| 16 | Arboriculture/Land Scaping | Job | 1.00 | Tk. 5000000.00 | Tk. 5000000.00 |
| 17 | Contingency | Job | 1.00 | Tk. 2500000.00 | Tk. 2500000.00 |
| **Grand Total** | | | | **Tk. 5241852893.91** | |
| **In Words: Fifty Two Thousand Four Hundred Eighteen Point Five Three Lac Only** | | | | | |

## 9.2 cÖv\_wgK e¨q-cÖv°j‡bi A\_©‰bwZK b¨vh¨Zv cÖwZcv`bt

cÖK‡íi cÖv\_wgK e¨q-cÖv°jb wba©vwiZ n‡q‡Q wewfbœ DcKi‡Yi evRvi g~j¨ Abymv‡i| wewfbœiKg wbg©vY e¨q I evwn¨K ˆe`¨yZxKiY e¨q GLv‡b AšÍf©~³ Kiv n‡q‡Q| mKj cÖv\_wgK e¨q evRvi g~j¨ Abymv‡i M„nxZ n‡q‡Q| cÖK‡íi wewfbœ DcKi‡Yi evRvi g~‡j¨i wPÎ wb¤œiæc:

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **Description of Items** | **Amount in Taka** |
| 01. | **Construction of Annex Building** | **Tk. 2771845734.62** |
| 02. | External Electrification |  |
|  | 1. 1500 KVA Electrical Sub-Station Equipment | Tk. 25000000.00 |
|  | 1. 400 KVA Auto Diesel Generator (with ATS & Canopy) | Tk. 18000000.00 |
|  | 1. Different type Passenger Lift/Bed Lift/Fire Lift (5 nos) | Tk. 43100000.00 |
|  | 1. Escalator (2 nos) | Tk. 15000000.00 |
|  | 1. Central Air Conditioning System (2500 ton) | Tk. 325000000.00 |
|  | 1. Centrifugal, Submersible and Pressure Pump Motor | Tk. 2700000.00 |
|  | 1. Fire Detection System | Tk. 15000000.00 |
|  | 1. Fire Protection System | Tk. 30000000.00 |
|  | 1. PABX/Intercom System | Tk. 1000000.00 |
|  | 1. PA System | Tk. 5000000.00 |
|  | 1. Conference System | Tk. 1500000.00 |
|  | 1. Multimedia System | Tk. 2000000.00 |
|  | 1. Stage Light and Sound System | Tk. 15000000.00 |
|  | 1. CCTV System (Camera, DVR, monitor and wiring etc.) | Tk. 5500000.00 |
|  | 1. Parking Automation System | Tk. 2000000.00 |
|  | 1. Audio Device at Plaza Area | Tk. 2800000.00 |
|  | 1. Lighting Automation at Reading Area | Tk. 16000000.00 |
|  | 1. Bag Scanner and Metal Detector | Tk. 35000000.00 |
|  | 1. Day Light Harvesting and Motion Sensor | Tk. 13500000.00 |
|  | 1. Computer Networking System (Lan/Wi-Fi) | Tk. 1000000.00 |
|  | 1. Compound / Security Lighting with Gate and Garden | Tk. 1500000.00 |
|  | 1. Surge Protection Device with Chemical Earthing | Tk. 1600000.00 |
|  | 1. Special Light Fitting | Tk. 3000000.00 |
|  | 1. Force ventilation System (Basement) | Tk. 5000000.00 |
|  | 1. Dehumidifier | Tk. 1000000.00 |
|  | 1. PDB/DPDC/DESCO/REB Charge | Tk. 4800000.00 |
|  | 1. Solar PV System (80 KWp) (Gridfree type) | Tk. 10400000.00 |
|  |  |  |
| 03 | **Renovation of Existing Museum Building** | Tk. 1397333289.00 |
| 04 | External Electrification |  |
|  | 1. 1500 KVA Electrical Sub-Station Equipment | Tk. 12500000.00 |
|  | 1. 400 KVA Auto Diesel Generator (with ATS & Canopy) | Tk. 9000000.00 |
|  | 1. Escalator | Tk. 15000000.00 |
|  | 1. Central Air Conditioning System (2500 ton) | Tk. 195000000.00 |
| 05 | Construction of Director General Residence | Tk. 18365145.31 |
| 06 | Construction of Officers Residential Building | Tk. 61591916.85 |
| 07 | Construction of Staff Residential Building | Tk. 65661273.44 |
| 08 | Construction of Under Ground Water Reservoir | Tk. 7700000.00 |
| 09 | Sinking of 6-inch Deep Tube Well including Distribution line | Tk. 9302042.06 |
| 10 | Construction of Compound Drain | Tk. 1484175.09 |
| 11 | Construction of Approach Road | Tk. 2043849.87 |
| 12 | Construction of RCC Boundary Wall | Tk. 12625467.68 |
| 13 | Construction of Sewerage Treatment Plant | Tk. 50000000.00 |
| 14 | Soil Investigation, Digital Survey, PDA Test | Tk. 2500000.00 |
| 15 | Testing of Materials | Tk. 1000000.00 |
| 16 | Arboriculture/Land Scaping | Tk. 5000000.00 |
| 17 | Contingency (PWD and Architecture) | Tk. 2500000.00 |
| **Grand total** | | **Tk. 5241852893.91** |
| **In Words: Fifty Two Thousand Four Hundred Eighteen Point Five Three Lac Only** | | |

## 9.3 jvf-ÿwZi Zzjbvg~jK ch©v‡jvPbvt

e¨q-cÖv°j‡bi A\_©‰bwZK g~j¨vq‡bi wm×v‡šÍ †cŠQv‡Z jvf I ÿwZ, jvf-ÿwZi AbycvZ (BCR), Ges Avf¨šÍixY †di‡Zi nvi (IRR) Gi Zzjbvg~jK ch©v‡jvPbv Kiv AZxe ¸iæZ¡c~Y©|

Avf¨šÍixY †di‡Zi nvi (IRR) wbY©‡qi †ÿ‡Î jvf I ÿwZi ch©v‡jvPbvq cÖv\_wgKfv‡e 15 kZvsk (cwiKíbv Kwgk‡bi cÖ¯Ívebv Abymv‡i) AMÖvn¨ Kiv n‡q‡Q Ges cieZ©x‡Z Av‡iv 10 kZvsk AMÖvn¨ Kiv n‡q‡Q hv‡Z K‡i myôz djvd‡j †cŠQv‡bv hvq| wb‡¤œv³ †Uwe‡j A\_©‰bwZK we‡køl‡Yi mvi-ms‡ÿc Zz‡j aiv n‡q‡Q|

## 9.4 ms‡e`bkxjZv we‡kølYt

cÖK‡íi jvf I ÿwZ cÖv°jb (estimation) Ges Awf‡ÿ‡ci (projection) Dci wbf©ikxj| hw`I ev¯ÍweKfv‡e cÖK…Z g~j¨ I Dc‡fvM¨ myweavi mv‡\_ wKQzUv Awgj \_vK‡Z cv‡i| cÖK‡íi h\_v‡hvM¨Zv hvPvB Ki‡Z 3wU weKí Ae¯’v/cwiw¯’wZi K\_v we‡ePbv K‡i ms‡e`bkxjZv we‡kølY Kiv n‡q‡Q| †m¸‡jv nj:

1. g~j¨ cÖev‡n (cost stream) 10 kZvsk e„w×;
2. myweav cÖev‡n (benefit stream) 10 kZvsk n«vm;
3. (1) I (2) Gi †hŠ\_ cÖfve

cÖKíwUi me©‡gvU eZ©gvb g~j¨ evnvbœ nvRvi PvikZ AvVv‡iv `kwgK cvuP wZb jÿ UvKv gvÎ (52418.53 jÿ UvKv)| DwjøwLZ g~j¨ Abymv‡i ms‡e`bkxjZv we‡køl‡Yi djvdj wb‡¤œv³ †Uwe‡j Dc¯’vcb Kiv nj:

|  |  |  |  |
| --- | --- | --- | --- |
| **SI No.** | **Economic Evaluation** | **BCR** | **IRR (%)** |
| **01** | Base Case | 1.31 | 18.72 |
| **02** | Benefit (10% reduced) | 1.19 | 17.62 |
| **03** | Cost (10% increased)) | 1.18 | 17.48 |
| **04** | Combined effect of benefit 10% reduced and cost 10% increased | 1.07 | 16.18 |

cÖK‡íi A\_©‰bwZK g~j¨vq‡bi wm×v‡šÍ †cŠQuv‡Z jvf-ÿwZi Zzjbv, †gvU eZ©gvb g~j¨, jvf-ÿwZ AbycvZ, I Avf¨šÍixY †di‡Zi nvi Lyu‡R †ei Kiv n‡q‡Q| mKj dvBj mshy³ Kiv nj (cwiwkó-3 `ªóe¨)|

Rv`yN‡i cÖwZw`b AvbygvwbK 3000 R‡bi AwaK ¯’vbxq I AvšÍR©vwZK ch©UK cwi`k©‡b Av‡m| Rv`yN‡ii cwiea©bmvwaZ n‡j Av‡iv AwaK msL¨K ch©UK cwi`k©b Ki‡Z cvi‡e hv miKv‡ii AwaK ivR¯^ Av`v‡q mnvqK f‚wgKv cvjb Ki‡e| GiKg Av‡iv wewfbœ A\_©‰bwZK w`K hvPvB-evQvB K‡i cÖKíwU M„nxZ, A\_©‰bwZKfv‡e b¨vqm½Z, I fwel¨‡Zi Rb¨ jvfRbK wn‡m‡e we‡ewPZ n‡q‡Q|

# 10. ms‡e`bkxjZv we‡kølYt

cÖK‡íi jvf-ÿwZ cÖv°jb I Awf‡ÿ‡ci Dci wbf©i K‡i| ev¯Í‡e GwU cÖK…Z e¨q Ges Dcjf¨ myweavi mv‡\_ cwieZ©xZ n‡Z cv‡i| cÖK‡íi †hŠw³KZv hvPvB‡qi j‡ÿ¨ cÖ‡qvRbc~e©K cÖwZwU cwiw¯’wZ we‡ePbvq wb‡q ms‡e`bkxjZv we‡kølY Kiv n‡q‡Q Ges ms‡e`bkxjZv we‡kølY mv‡c‡ÿ cÖKíwU MÖnY‡hvM¨ e‡j we‡ewPZ n‡q‡Q|

# 11. Dcmsnvit

## 11.1 KvVv‡gvMZ iæc‡iLvt

KvVv‡gvMZ w`K †\_‡K we‡ePbv Ki‡j †`Lv hvq GB †hŠ\_ febwU wbivc` I cÖ‡qvRbxq gvb`Ð Abymv‡i wbwg©Z n‡e e‡j we‡ewPZ (cwiwkó-1 `ªóe¨)|

## 11.2 wfwËi aiY we‡ePbvt

GB fe‡bi wfwË KvVv‡gvMZ Kvh©µg Ges wewfbœ bKkvMZ w`K m¤úbœ Ki‡Z ch©vß aviY ÿgZv Ges Ab¨vb¨ myweavw` wb‡Z h‡\_ó mÿg| bKkv Abymv‡i fe‡bi cÖKí Kvh©µg Av‡iv AwaKZi gvÎvq cÖ‡KŠkj Kg©KvÐ Pvwj‡q hvIqvi Rb¨ h‡\_ó kw³kvjx| fe‡bi wfZ‡ii bKkv h‡\_ô hy‡Mvc‡hvMx Ges AvšÍR©vwZK gv‡bi hv `k©bv\_©x, wkÿv\_©x Ges Kg©KZ©v‡`i Rb¨ MÖnY‡hvM¨ I Avivg`vqK (cwiwkó- 1 I 2 `ªóe¨)|

## 11.3 mvgvwRK Ges cybe©vm‡bi cÖfve we‡ePbvt

eZ©gvb Ae¯’v Ges AÎ wefv‡Mi Ab¨vb¨ Kg©KZ©v‡`i fvl¨ we‡ePbvq GLv‡b mvgvwRK Ges cybe©vmbg~jK †Kvb cÖfve we`¨gvb †bB| cÖKíwU AÎ wefv‡Mi wbR¯^ RvqMvq Aew¯’Z nIqvq Zv ev¯Íevq‡bi Rb¨ †Kvb cybe©vm‡bi cÖ‡qvRbxqZvI †bB|

## 11.4 cwi‡ekMZ w`K we‡ePbvt

m¤¢ve¨ cwi‡ekMZ cÖfve, cÖ¯ÍvweZ mywbw`©ó cÖkgb I ch©‡eÿYg~jK c`‡ÿc Ges D™¢‚Z myweavw`i Dci mgv‡jvPbvg~jK ch©v‡jvPbv Ki‡j ‡`Lv hvq †h cÖ¯ÍvweZ ¯’v‡b cÖKíwU ev¯ÍevwqZ n‡j Zv cvk^©eZ©x cwi‡e‡ki ¸YMZgvb Ges we`¨gvb m¤ú‡`i Dci †Kvb weiæc cÖfve †dj‡e bv|

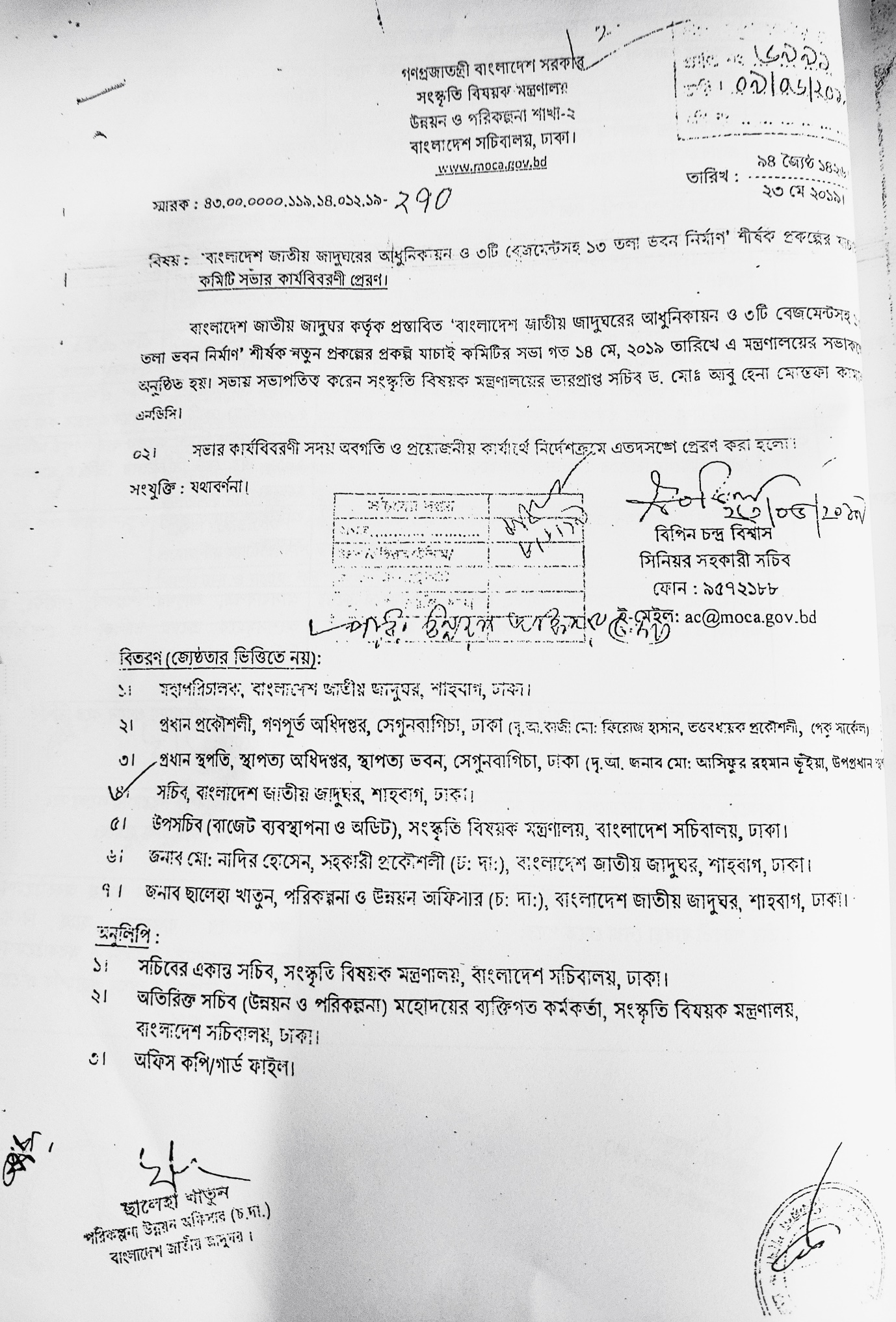
## 11.5 A\_©‰bwZK b¨vqm½Zvt

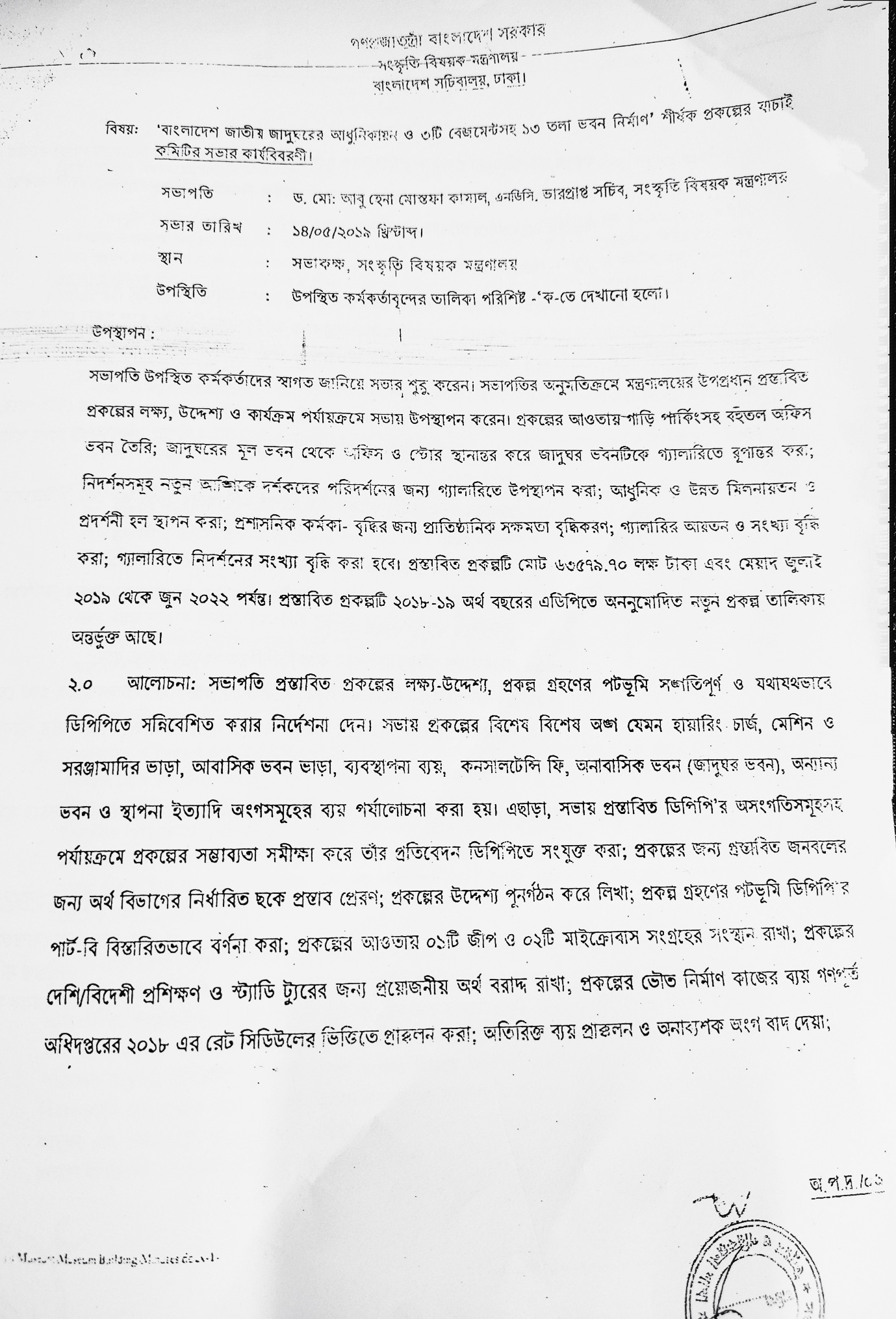
cÖ¯ÍvweZ g~j¨vwqZ mg‡q wewfbœ A\_©‰bwZK gvb`‡Ð Kiv A\_©‡bwZK we‡kølY ‡\_‡K Bnv cÖwZqgvb nq ‡h, cÖKíwU A\_©‡bwZKfv‡e †UKmB Ges cÖK‡í wewb‡qvM AZ¨šÍ b¨qm½Z| (cwiwkó- 3 `ªóe¨) |

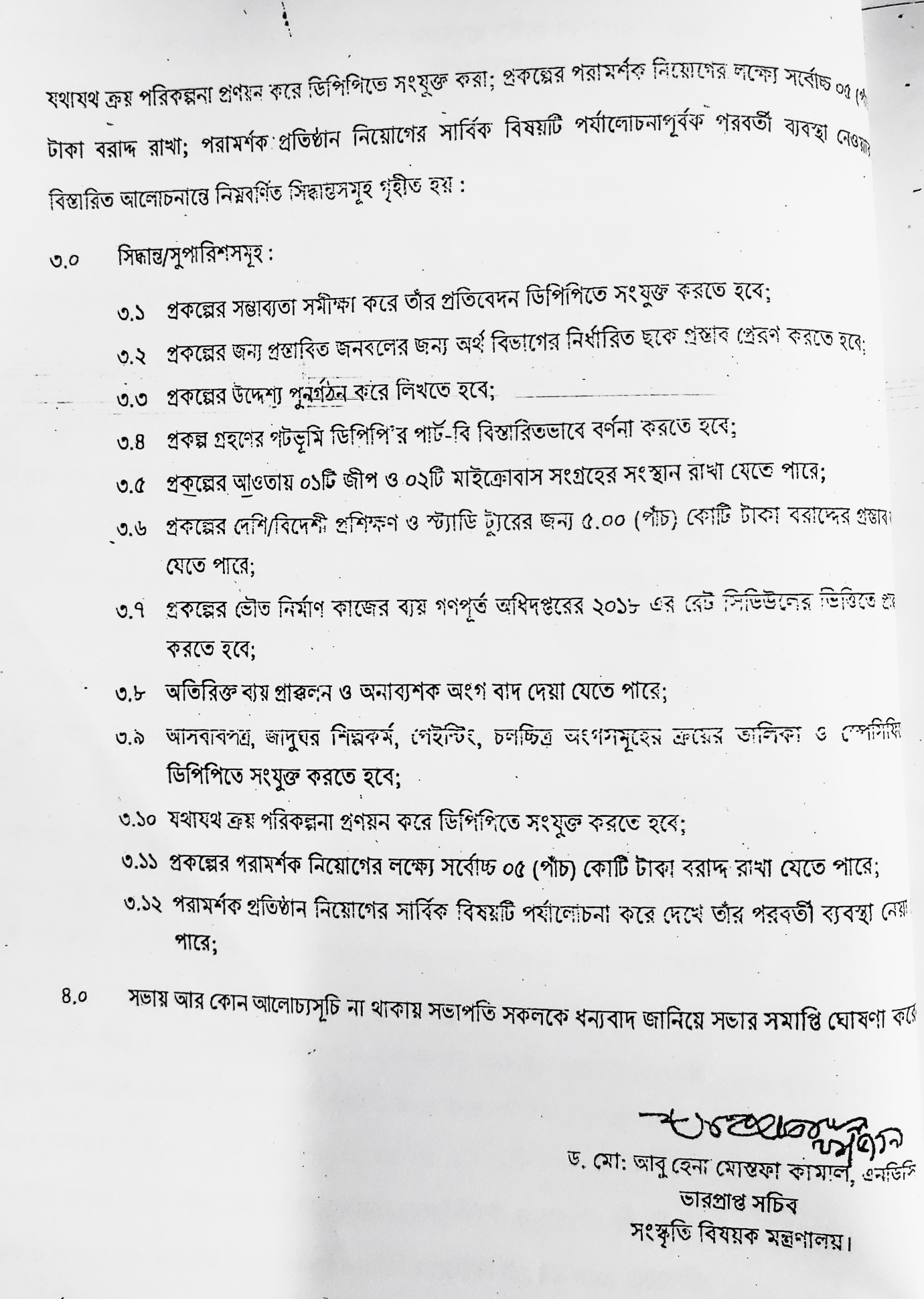
# 12. gZvgZ I mycvwikt

|  |  |
| --- | --- |
| K. | evsjv‡`k RvZxq Rv`yN‡ii ms¯‹vi, cybwe©b¨vm I m¤úªmvi‡Yi gva¨‡g †`‡ki BwZnvm I HwZ‡n¨i myôz msiÿY cÖ`k©‡bi wbwgË cÖKí cÖYqb Kiv cÖ‡qvRb| cÖKí ev¯Íevq‡bi gva¨‡g GKw`‡K †hgb †`‡ki BwZnvm HwZn¨-mswkøó g~j¨evb wb`k©bmg~‡ni h\_vh\_ myiÿv wbwðZ n‡e, Aciw`‡K me© mvaviY‡K Zv cÖ`k©‡bi gva¨‡g †`k-we‡`‡ki `k©bv\_©xMY evsjv‡`‡ki ms¯‹…wZ, HwZn¨ I BwZnvm m¤ú‡K© e¨vcKfv‡e Rvbvi my‡hvM cv‡e| |
|  |  |
| L. | cÖ¯ÍvweZ cÖKí `yÕwU MÖnY I ev¯Íevq‡bi gva¨‡g evsjv‡`k RvZxq Rv`yNi Ges MYMÖš’vMvi Awa`ßi I RvZxq MÖš’‡K›`ª G wZbwU cÖwZôvb GKB ms¯‹…wZ ej‡qi g‡a¨ ms¯’vwcZ n‡q †`‡ki mvgwMÖK Dbœq‡b e¨vcKZi f~wgKv cvj‡b mÿg n‡e e‡j g‡b Kwi| |

**cwiwkó-1**

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****

****

**cwiwkó-2**

**cwiwkó-3**