

Security Framework Milestones for Draft Water Licence Framework

| CAPTIAL COSTS | | SECURITY ESTIMATE COST |
|--|-------|------------------------|
| UNDERGROUND MINE | | \$ 246,298 |
| TAILINGS FACILITY | | \$ 999,674 |
| ROCK PILE | | \$ 1,651,250 |
| BUILDINGS AND EQUIPMENT | | \$ 3,199,383 |
| CHEMICALS AND CONTAMINATED SOIL MANAGEMENT | | \$ 464,521 |
| CONTRACTOR INDIRECTS | | \$ 4,029,017 |
| SURFACE AND GROUNDWATER MANAGEMENT | | \$ 327,480 |
| INTERIM CARE AND MAINTENANCE | | \$ 70,567 |
| SUBTOTAL: Capital Costs | | \$ 10,988,190 |
| INDIRECT COSTS | | SECURITY ESTIMATE COST |
| MOB/DEMOB | | \$ 10,095,347 |
| POST CLOSURE MONITORING | | \$ 936,257 |
| ENGINEERING | 4% | \$ 427,913 |
| PROJECT MANAGEMENT - CONTRACTOR | 3.62% | \$ 386,926 |
| PROJECT MANAGEMENT - LMI | 1.38% | \$ 147,966 |
| BONDING/INSURANCE | 1% | \$ 106,978 |
| CONTINGENCY | 5% | \$ 534,892 |
| SUBTOTAL: Indirect Costs | | \$ 12,636,279 |
| TOTAL COSTS | | \$ 23,624,469 |

| As Discussed with LMI/CIRNAC/ ARCADIS/NAHANNI on January 7, 2020 | Engineer Verification as part of the Monthly Report or Engineer Sign-Off included with Monthly Report | CIRNAC Inspection Via Email or Site Inspection |
|--|---|--|
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| | | |
| As Discussed with LMI/CIRNAC/ ARCADIS/NAHANNI on January 7, 2020 | Engineer Verification in Monthly Report or Engineer Sign-Off | CIRNAC Inspection Via Email or Site Inspection |
| | Submit new cost estimate with each reduction - percentages will reduced as shown in the new cost estimate | |
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Underground Mine Name

| ACTIVITY/MATERIAL | Unit | Qty | Cost Code | Unit Cost | Cost |
|---|------|-------|-----------|-----------|----------------|
| CONTROL ACCESS | | | | | |
| Backfill portal - plug portal with waste rock - 10 m long | m3 | 250 | DRS | 2.06 | \$ 515 |
| CROWN PILLAR BLASTING FOR STORAGE | | | | | |
| Pump out water from crown pillars | m3 | 5,250 | POCS | 1.57 | \$ 8,243 |
| West Zone - drill and blast | m3 | 9,250 | #N/A | 25.68 | \$ 237,540 |
| Total | | | | \$ | 246,298 |

ACTIVITY/MATERIAL

| ACTIVITY/MATERIAL | Unit | Qty | Cost Code | Unit Cost | Cost |
|---|------|--------|-----------|-----------|------------|
| STABILIZE EMBANKMENT(S) | | | | | |
| Toe buttress, bulk fill - place esker toe berm to repair erosion on K Dam | m3 | 17000 | SC1S | 2.74 | \$ 46,580 |
| Flatten granular fill on Pond 1 side of M Dam | m2 | 7500 | #N/A | 2.53 | \$ 18,975 |
| COVER TAILINGS | | | | | |
| Soil cover and outflow- Cell 3 | m3 | 86000 | SC3S | 4.01 | \$ 344,860 |
| Soil Cover and outflow - Cell 5 | m3 | 104500 | SC3S | 4.01 | \$ 419,045 |
| Cover tailings exposed in Cell 4 | m3 | 14000 | SC3S | 4.01 | \$ 56,140 |
| BURY PAG ROCK / TAILINGS | | | | | |
| Remove tailings from emergency dump ponds | m3 | 300 | #N/A | 7.92 | \$ 2,376 |
| STABILIZE DECANT SYSTEM | | | | | |
| Remove and dispose of syphons (8) from J Dam and Dam 1A | m | 200 | PLRL | 22.00 | \$ 4,400 |
| REMOVE TAILINGS DISCHARGE | | | | | |

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|---|--|--|
| Mines Inspector sign off | Attached Mines Inspectors Letter to Monthly Report | CIRNAC Inspector on site will/can also assess |
| Photos and Engineer Verification | Engineer Verification as part of the Monthly Report | CIRNAC Inspector via email or will/can also access |
| Mines Inspector Sign Off and Engineer Verification | Engineer Verification as part of the Monthly Report | CIRNAC Inspector on site will/can also assess |
| | | |
| As Discussed with LMI/CIRNAC/ ARCADIS/NAHANNI on January 7, 2020 | Engineer Verification in Monthly Report or Engineer Sign-Off | CIRNAC Inspection Via Email or Site Inspection |
| Survey and documentation | Engineer Verification | CIRNAC Inspector on site will/can also assess |
| Survey and documentation | Engineer Verification | CIRNAC Inspector on site will/can also assess |
| Aerial photo, survey with field engineer sign off that depth of cover was confirmed | Engineer Sign-Off | CIRNAC Inspection on site |
| Aerial photo, survey with field engineer sign off that depth of cover was confirmed | Engineer Sign-Off | CIRNAC Inspection on site |
| Aerial photo, survey with field engineer sign off that depth of cover was confirmed | Engineer Sign-Off | CIRNAC Inspection on site |
| Photographs | Engineer Verification | CIRNAC Inspector via email or will/can also access |
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| | | | | | | |
|---|----|-------|------|--------|----|--------|
| Tailings Pipe | m | 4000 | PLRS | 4.75 | \$ | 19,000 |
| UPGRADE SPILLWAYS | | | | | | |
| Cell 4 Outlet | LS | 1 | #N/A | 19,009 | \$ | 19,009 |
| Excavate channel, soil - Spillway on Dam 1A and Dam J | m3 | 12350 | SB1L | 4.30 | \$ | 53,105 |
| Rip rap - Cover the spillway invert and channel slopes to 2 m flow depth using rip rap recovered from dam slopes. | m3 | 936 | RR3L | 7.00 | \$ | 6,552 |
| Geotextile- Place under spillway rip rap. | m2 | 2800 | GSTL | 3.44 | \$ | 9,632 |

Total \$ **999,674**

Rock Pile Name:

| ACTIVITY/MATERIAL | Unit | Qty | Cost Code | Unit Cost | Cost |
|--|------|--------|-----------|-----------|------------|
| COVER ROCK PILE | | | | | |
| Mine Site Soil cover - Area 1 excavate,haul,spread&compact | m3 | 61,500 | SC4S | 3.98 | \$ 244,770 |
| Mine Site Soil cover - Area 2 excavate,haul,spread&compact | m3 | 54,500 | SC4S | 3.98 | \$ 216,910 |
| Mine Site Soil cover - Area 3 excavate,haul,spread&compact | m3 | 57,100 | SC4S | 3.98 | \$ 227,258 |
| Mine Site Soil cover - Area 4 excavate,haul,spread&compact | m3 | 57,892 | SC4S | 3.98 | \$ 230,410 |
| Mine Site Soil cover - Shop Area excavate,haul,spread&compact | m3 | 1,008 | SC4S | 3.98 | \$ 234,422 |
| CONSOLIDATE ROCK INTO CENTRAL AREA | | | | | |
| Mine Site Quadrant 1 - Load, haul, dump or doze, erosion control | m3 | 50,500 | RR4S | 2.48 | \$ 125,240 |
| Mine Site Quadrant 2 - Load, haul, dump or doze, erosion control | m3 | 43,500 | RR4S | 2.48 | \$ 107,880 |
| Mine Site Quadrant 3 - Load, haul, dump or doze, erosion control | m3 | 47,300 | RR4S | 2.48 | \$ 117,304 |

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|-------------|------------------------------|--|
| Photographs | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| | | |
| Photographs | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Design | Design and Engineer Sign Off | CIRNAC Inspector via email or will/can also access |
| Photographs | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Photographs | Engineer Verification | CIRNAC Inspector via email or will/can also access |

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|--|------------------|-------------------|
| Confirm survey quantities. Proof of waste rock removal (visual assessment on outer edge of facility. | Engineer Signoff | CIRNAC Inspection |
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| | | | | | | |
|--|------|--------|--------|-------|-----------|------------------|
| Mine Site Quadrant 4 - Load, haul, dump or doze, erosion control | m3 | 49,700 | RR4S | 2.48 | \$ | 123,256 |
| SPECIALIZED ITEMS | | | | | | |
| Install permanent instrumentation - Thermistor strings in rock dome area | each | 10 | #N/A | 2,000 | \$ | 20,000 |
| Install permanent instrumentation, drilling - rock dome area | hrs | 20 | exc-sL | 190 | \$ | 3,800 |
| Total | | | | | \$ | 1,651,250 |

Chemicals/Soil Area Name:

| ACTIVITY/MATERIAL | Unit | Qty | Cost Code | Unit Cost | Cost |
|--|-------|--------|-----------|-----------|-------------------|
| BUILDING DECONTAMINATION & CONSOLIDATION OF HAZARDOUS MATERIALS | | | | | |
| Decontaminate: oil, fuel and glycol systems | m2 | 8,490 | #N/A | 22.80 | \$ 193,572 |
| Remove all asbestos containing materials - landfill or underground | m3 | 100 | #N/A | 817.20 | \$ 81,720 |
| HAZARDOUS MATERIALS REMOVAL | | | | | |
| Waste oils | litre | 5,940 | ORH | 1.20 | \$ 7,128 |
| Waste fuel | litre | 36,113 | ORL | 0.43 | \$ 15,529 |
| Other hazardous materials | kg | 15,840 | PCRL | 0.45 | \$ 7,128 |
| CONTAMINATED SOIL REMOVAL | | | | | |
| Excavate treated soils and move to underground - landfarm | m3 | 500 | #N/A | 2.29 | \$ 1,145 |
| Load, haul and dump into crown pillar - PHC Soils | m3 | 34,700 | #N/A | 1.95 | \$ 67,665 |
| Type-2 -As, CN- and PbNO3 to crown pillars | m3 | 16,700 | #N/A | 2.22 | \$ 37,074 |
| Lumber/boneyard contaminated soils - Excavate and move to crown pillars | m3 | 1,966 | #N/A | 2.74 | \$ 5,387 |
| Waste rock from mill laydown area - Excavate and move to crown pillars | m3 | 21,700 | #N/A | 2.22 | \$ 48,174 |
| Total | | | | | \$ 464,521 |

Building / Equip Name:

| ACTIVITY/MATERIAL | Unit | Qty | Cost Code | Unit Cost | Cost |
|--|------|-----|-----------|-----------|-----------|
| DISPOSE MOBILE EQUIPMENT | | | | | |
| Decontaminate and dispose on-site landfill | m3 | 540 | #NA | 30.49 | \$ 16,465 |

Confirm survey quantities.
Proof of waste rock removal (visual assessment on outer edge of facility.

Engineer Signoff

CIRNAC Inspection

Photographs of Complete Work Engineer Verification

Photographs of Complete Work Engineer Verification

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|---|--|--|
|---|--|--|

Photographs of Completed Work and Item Inventory
Photographs of Completed Work and Item Inventory

Engineer Verification

Manifests/Photographs

CIRNAC Inspector via email or will/can also access

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Confirmation of Placement Underground
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Engineer Verification

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Photographs and Inventory

Engineer Verification

CIRNAC Inspector via email or will/can also access

| REMOVE BUILDINGS | | | | | | |
|---|----|-------|-------|--------|----|---------|
| Accommodation Complex 2020 - Kitchen, Recreation, 100, 200, 300, 400, 900, 1000, 1100, 1200 | m2 | 4,451 | #N/A | 28.13 | \$ | 125,207 |
| Accommodation Complex 2021 - Offices 500, 600, 700, 800, 1300 | m2 | 2,878 | #N/A | 28.13 | \$ | 80,958 |
| Hoist Room and Travel Ways | m2 | 463 | #N/A | 203.30 | \$ | 94,128 |
| Shaft House | m2 | 1253 | #N/A | 203.30 | \$ | 254,735 |
| Warehouse | m2 | 4671 | #N/A | 70.72 | \$ | 330,333 |
| Mill | m2 | 2864 | #N/A | 208.72 | \$ | 597,774 |
| Powerhouse | m2 | 1645 | #N/A | 115.48 | \$ | 189,965 |
| Headframe | m2 | 413 | #N/A | 203.32 | \$ | 83,971 |
| Airlock Building and Fresh air Intake | m2 | 366 | #N/A | 29.84 | \$ | 10,921 |
| Cold Storage 2 buildings | m2 | 1855 | #N/A | 50.59 | \$ | 93,844 |
| Surface Mobile Shop | m2 | 1008 | #N/A | 50.59 | \$ | 50,995 |
| Carpenter Shop | m2 | 482 | #N/A | 50.59 | \$ | 24,384 |
| AS Treatment Plant Building | m2 | 177 | #N/A | 50.59 | \$ | 8,954 |
| Pumphouse | m2 | 74 | #N/A | 124.53 | \$ | 9,215 |
| Explosives Storage | m2 | 412 | #N/A | 124.53 | \$ | 51,306 |
| Fire house | m2 | 31 | #N/A | 29.84 | \$ | 925 |
| Emergency Power House | m2 | 117 | #N/A | 29.84 | \$ | 3,491 |
| LMI Weather Station (Not ECCC) and Storage Buildings | m2 | 566 | #N/A | 29.84 | \$ | 16,889 |
| Shop | m2 | 379 | #N/A | 29.84 | \$ | 11,309 |
| Batch Plant | m2 | 118 | #N/A | 29.84 | \$ | 3,521 |
| ATV Building | m2 | 172 | #N/A | 29.84 | \$ | 5,132 |
| Fuel Tanks - Main Tank Farm - 2020 - All - excluding Tank 13-14 | m2 | 8,090 | BRS15 | 68.49 | \$ | 554,084 |

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| Confirm Removal was Completed | Engineer Verification | CIRNAC Inspector via email or will/can also access |
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| Confirm Removal was Completed | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Confirm Removal was Completed | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Confirmation of Tanks still requiring cleaning - Photographs once they are removed | Mechanical Engineer Sign off - Engineer Verification of removal | CIRNAC Inspector via email or will/can also access |

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|---|------|---------|-------|--------|---------------------|---------|
| Fuel Tanks - Main Tank Farm - 2021 - Tank 13-14 | m2 | 400 | BRS1S | 68.49 | \$ | 27,396 |
| Fuel Tanks - Satellite Tank Farm - already cleaned | m2 | 989 | BRS1S | 68.49 | \$ | 67,737 |
| Flush sewage pipelines | LS | 1 | #N/A | 7,128 | \$ | 7,128 |
| Break foundation slabs - Use hoe ram to puncture slabs. Leave in place and cover. | m2 | 15,000 | #N/A | 4.02 | \$ | 60,300 |
| Boneyard debris and steel from tanks | m3 | 20,000 | #N/A | 9.14 | \$ | 182,800 |
| LANDFILL FOR DEMOLITION WASTE | | | | | | |
| Place rock cover | m3 | 11,150 | RR4S | 3.07 | \$ | 34,231 |
| Place soil cover | m3 | 13,500 | SB4L | 3.95 | \$ | 53,325 |
| Clean burn pit and incinerator | LS | 1 | #N/A | 11,880 | \$ | 11,880 |
| Load, haul and dump in landfill | m3 | 30,000 | SB1S | 3.07 | \$ | 92,100 |
| RECLAIM ROADS | | | | | | |
| Remove culverts | each | 22 | #N/A | 199 | \$ | 4,378 |
| Other - grade and contour the esker borrow area | m3 | 180,000 | DSS | 0.22 | \$ | 39,600 |
| Total | | | | | \$ 3,199,383 | |

Capital Expenditures and Short Term Water Treatment identified in 'Instructions' worksheet

| ACTIVITY/MATERIAL | Unit | Qty | Cost Code | Unit Cost | Cost |
|---------------------------------|------|------|-----------|-----------|-------------------|
| BREACH DYKE EMBANKMENT | | | | | |
| Upper and Lower Sewage Lagoons | LS | 1 | #N/A | 11,880 | \$ 11,880 |
| CONSTRUCT WATER TREATMENT PLANT | | | | | |
| Upgrade treatment plant | LS | 1 | #N/A | 35,000 | \$ 35,000 |
| Treatment Materials - Soda Ash | bag | 5000 | #N/A | 16.25 | \$ 81,250 |
| Water Treatment Labour | 1 | LS | #N/A | 199,350 | \$ 199,350 |
| Total | | | | | \$ 327,480 |

Interim Care and Maintenance

| | | |
|---|---|--|
| Mechanical Engineer in Nunavut signoff for cleaning - Photographs once they are removed | Mechanical Engineer Sign off - Engineer Verification of removal | CIRNAC Inspector via email or will/can also access |
| Photographs once they are removed | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Confirmation | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Photographs of perforated/broken slabs | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Photographs | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| | | |
| Confirmation work was carried out in accordance with requirements | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Confirmation work was carried out in accordance with requirements | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Confirmation work was carried out in accordance with requirements | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Confirmation work was carried out in accordance with requirements | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| | | |
| Photos and locations of where the culverts were located | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Drone Survey - Final grade plan | Engineer Verification | CIRNAC Inspector via email or will/can also access |

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| Photographs | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| | | |
| Photographs | Engineer Verification | CIRNAC Inspector via email or will/can also access |
| Ice Road Manifests or other documentation | | CIRNAC Inspector via email or will/can also access |
| Photographs of Work | Engineer Verification | CIRNAC on site |
| | | |

| ACTIVITY/MATERIAL | Unit | Qty | Cost Code | Unit Cost | Cost |
|-------------------------------------|--------|---------|-----------|--------------|------------------|
| INTERIM CARE & MAINTENANCE | | | | | |
| SNP/AEMP water sampling & reporting | each | 1 | #N/A | 12,360 | \$ 12,360 |
| Geotechnical assessment | each | 1 | #N/A | 22,923 | \$ 22,923 |
| | Annual | Interim | C&M Cost | | \$ 35,283 |
| Number of years of ICM | years | 2 | | Total | \$ 70,567 |

Post-Closure Monitoring & Maintenance:

| ACTIVITY/MATERIAL | Unit | Qty | Cost Code | Unit Cost | Cost |
|--|------|-----|-----------|-----------|-------------------|
| MONITORING & INSPECTIONS | | | | | |
| Annual geotechnical inspection | each | 10 | #N/A | 22,923 | \$ 229,235 |
| Monitoring years - 10 | Year | 3 | LMI | 100,000 | \$ 300,000 |
| Site water monitoring (AEMP and SNP) | each | 10 | #N/A | 12,360 | \$ 123,600 |
| Environmental Effects Monitoring (EEM) after 3 years | each | 1 | #N/A | 126,079 | \$ 126,079 |
| Subtotal for first 10 years, undiscounted | | | | | \$ 778,914 |
| Discount rate for calculation of net present value of post-closure cost, % | | | 3.00% | | |
| Number of years of post-closure activity | | | 25 | years | |
| Net Present Value of payment stream | | | | | |
| Subtotal for first 10 years, undiscounted | | | | | \$ 936,257 |

Mobilization/Demobilization:

| ACTIVITY/MATERIAL | Unit | Qty | Cost Code | Unit Cost | Cost |
|---|------|-----|-----------|-----------|--------------|
| MOBILIZE HEAVY EQUIPMENT | | | | | |
| Mobilize equipment fleet | LS | 1 | #N/A | 1,888,200 | \$ 1,888,200 |
| De-mobilize equipment fleet | LS | 1 | #N/A | 1,900,775 | \$ 1,900,775 |
| De-mobilize salvageable equipment and materials | LS | 1 | #N/A | 107,479 | \$ 107,479 |
| Labour for Mobilization | LS | 1 | #N/A | 129,047 | \$ 129,047 |
| Labour for Demobilization | LS | 1 | #N/A | 66,479 | \$ 66,479 |

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| Analysis reports filed | | CIRNAC Inspector via email |
| Filed with the NWB | | CIRNAC Inspector via email |

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|---|--|----------------------------|
| Annual basis, once work is completed at site - Filed with the NWB | | CIRNAC Inspector via email |
| Annual basis, once work is completed at site | | CIRNAC Inspector via email |
| Analysis filed | | CIRNAC Inspector via email |
| Annual basis, once work is completed at site - Filed with ECCC | | CIRNAC Inspector via email |

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|--|----|---|------|----------------------|----|-----------|
| Equipment | LS | 1 | #N/A | 3,047,802 | \$ | 3,047,802 |
| Demobilize - Excavator and Rock Truck via Herc | LS | 3 | #N/A | 20,000 | \$ | 60,000 |
| MOBILIZE WORKERS | | | | | | |
| Reclamation activities - transport | LS | 1 | #N/A | 1,074,795 | \$ | 1,074,795 |
| Rotation over reclamation period | LS | 1 | #N/A | 491,630 | \$ | 491,630 |
| WORKER ACCOMMODATIONS | | | | | | |
| Reclamation activities | LS | 1 | #N/A | 2,898,640 | \$ | 2,898,640 |
| CONSTRUCTION MAINTENANCE | | | | | | |
| Site roads and airstrip | LS | 1 | #N/A | 204,300 | \$ | 204,300 |
| Site equipment and facilities | LS | 1 | #N/A | 434,447 | \$ | 434,447 |
| MOBILIZE FUEL | | | | | | |
| Fuel for reclamation activities | LS | 1 | | 924,776 | \$ | 924,776 |
| WINTER ROAD | | | | | | |
| Mobilization - Construction and operation 2020 | LS | 1 | #N/A | 477,997 | \$ | 477,997 |
| Demobilization - Construction and operation 2022 | LS | 1 | #N/A | 477,997 | \$ | 477,997 |
| Total | | | | \$ 14,184,363 | | |

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|---|---|
| Photographs - Inventory List | CIRNAC Inspector via email or will/can also access |
| Photographs - Inventory List | CIRNAC Inspector via email or will/can also access |
| Release on completion of direct work apportioned to the total value of direct work as at March 31 2020, for example if a tenth of the direct work is released, a tenth of the indirect item is released | |
| Release on completion of direct work apportioned to the total value of direct work as at March 31 2020, for example if a tenth of the direct work is released, a tenth of the indirect item is released | CIRNAC Inspector to confirm work is being carried out at site |
| Release on completion of direct work apportioned to the total value of direct work as at March 31 2020, for example if a tenth of the direct work is released, a tenth of the indirect item is released | |
| Release on completion of direct work apportioned to the total value of direct work as at March 31 2020, for example if a tenth of the direct work is released, a tenth of the indirect item is released | CIRNAC Inspector to confirm work is being carried out at site |
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