ކްރިމިނަލް ކޯޓު

މާލެ،

ދިވެހިރާއްޖެ

ނަންބަރު: 145-P/2026/48

އިޢުލާން

ކްރިމިނަލް ކޯޓަށް، އިންޓަރެކްޓިވް ބޯޑު ސޯލިއުޝަނެއް ޑިޒައިންކޮށް، ސަޕްލައިކޮށް، އިންސްޓޯލްކޮށް، ކޮމިޝަންކުރުމުގެ މަސައްކަތްކޮށްދޭނެ ފަރާތެއް ހޯދަން ބޭނުންވެއެވެ.

ބިޑާ ގުޅޭ މަޢުލޫމާތު ސާފުކުރުމަށް ކަނޑައަޅައިފައިވާ ސުންގަޑިއަކީ 2026 އޮގަސްޓް 30 ވަނަ ދުވަހުގެ 11:00 އެވެ. އަދި ބީލަން ހުށަހެޅުން އޮންނާނީ 2026 ސެޕްޓެމްބަރ 07 ވަނަ ދުވަހުގެ 11:00 ގައި ކްރިމިނަލް ކޯޓު ހިނގަމުންދާ ޖަސްޓިސް ބިލްޑިންގ އެނެކްސް (ހުޅުމާލެ) ގައެވެ. ބިޑާ ގުޅޭ މަޢުލޫމާތު ސާފުކުރުމަށް އީމެއިލް ކުރާނީ procurement@criminalcourt·gov·mv އަށެވެ. މި އިޢުލާން މިކޯޓުގެ ވެބްސައިޓް www.criminalcourt.gov.mv ގައި ޝާއިޢުކުރެވިފައިވާނެއެވެ.

10 ރަބީޢުލްއައްވަލް 1448

23 އޮގަސްޓް 2026

ކްރިމިނަލް ކޯޓު ، އަސްދުމާ ހިނގުން 23000 ، ފޯން: 3332633 ފެކްސް: 3344086

އީމެއިލް: info@criminalcourt.gov.mv ވެބްސައިޓް: www.criminalcourt.gov.mv

بسم الله الرحمن الرحيم

ކްރިމިނަލް ކޯޓު
މާލެ،
ދިވެހިރާއްޖެ

މަޢުލޫމާތު ކަރުދާސް

އިޢުލާން ނަންބަރު: 145-P/2026/48 (23 އޮގަސްޓް 2026)

1. ތަޢާރަފު

މިކޯޓަށް، އެންޓަރޕްރައިޒް ބެކަޕް ސޮލިއުޝަނެއް ޑިޒައިންކޮށް، ސަޕްލައިކޮށް، އިންސްޓޯލްކޮށް، ކޮމިޝަންކުރުމުގެ މަސައްކަތްކޮށްދޭނެ ފަރާތެއް ހޯދަން ބޭނުންވެއެވެ.

އިތުރު މަޢުލޫމާތު "ޓަރމްސް އޮފް ރިފަރެންސް TOR" ގައި އެވަނީއެވެ.

2. މަސައްކަތުގެ އަގު

އަންދާސީ ހިސާބު ހުށަހަޅާ ފޯމުގައި ބަޔާނީ ހުށަހަޅާ އަގުގެ ޖީ.އެސް.ޓީ ނުހިމަނާ އަގާއި ގުޅި މަސައްކަތަށް ހިނގާނެ އަގެވެ.

3. ބިޑާއި ގުޅޭ މަޢުލޫމާތު ސާފުކުރުން

މި ބިޑާ ގުޅޭ މަޢުލޫމާތު ސާފުކުރަން ހުށަހަޅާނީ ލިޔުމުންނެވެ. މަޢުލޫމާތު ސާފުކުރުމަށް އީމެއިލް ކުރާނީ procurement@criminalcourt.gov.mv އަށެވެ. މިގޮތުން މަޢުލޫމާތު ސާފުކުރުމަށް ކަނޑައެޅިފައިވާ ސުންގަޑިއަކީ 2026 އޮގަސްޓް 30 ވަނަ ދުވަހުގެ 11:00 އެވެ. ވަގުތުކުރު ނުވަތަ ބާކީވާ ދުވަސްތަކުގައި މަޢުލޫމާތު ސާފުކުރުމަށް ހުށަހަޅާ ހުށަހެޅުންތަކެއް ބަލައި ނުގަނެވޭނެއެވެ. ބިޑް ހުށަހެޅުމަށް ކަނޑައަޅާފައިވާ ތާރީޚުގެ ކުރިން ބިޑަށް އެއްވެސް އުނިއިތުރެއް ގެނެސްފިނަމަ ނުވަތަ ބަޔާންކޮށްދޭން ޖެހިއްޖެނަމަ، އެ މަޢުލޫމާތެއް ގެޒެޓުގައި ޝާއިޢުކުރެވޭނެއެވެ. މިގޮތުން ޝާއިޢުކުރާ މަޢުލޫމާތުތަކަކީ މަޢުލޫމާތު ކަރުދާހުގެ ބައެކެވެ.

4. ބީލަން ބަލައިގަތުމާއި ހުޅުވުން

ބީލަން ބަލައިގަތުމާއި ހުޅުވުމަށް ބާއްވާ ބައްދަލުވުން އޮންނާނީ 2026 ސެޕްޓެމްބަރ 07 ވަނަ ދުވަހުގެ 11:00 ގައި ކްރިމިނަލް ކޯޓު ހިނގަމުންދާ ޖަސްޓިސް ބިލްޑިންގގެ އެންޓްރަންސް (ހުޅުމާލެ) ގައެވެ. ކަނޑައެޅިފައިވާ ތާރީޚާއި ގަޑިއަށް ޙާޟިރުވާ ބީލަން ހުށަހަޅާ ފަރާތްތަކުގެ ބީލަން ބަލައި ނުގަނެވޭނެއެވެ. ބީލަންތައް ހުޅުވުމަށް ކަނޑައަޅާފައިވާ ގަޑީގައި އެވަގުތު އެތަނުގައި ތިބި ބީލަންވެރިންގެ ޙާޒިރުގައި، ހުށަހަޅާފައިވާ އެންމެހާ ބީލަންތައް ކަނޑާ ހުޅުވާލެވޭނެއެވެ. އަދި ބީލަންވެރިން ހުށަހަޅާފައިވާ އަގާއި، މުއްދަތު އަދި ބީލަމާއެކު ހުށަހަޅަންޖެހޭ ލިޔުންތަކުގެ ތެރެއިން ހުށަހެޅި ލިޔުންތައް އަނގަބަހުން ފާހަގަކޮށް، ބަޔާނު ކުރުވާ ސިޓީގައި ބާޔަންކޮށް ފަރާތްތަކުން ސޮއިކޮށް، ކޮންމެ ފަރާތަކުން އެސިޓީގެ ކޮޕީއެއް ދެވޭނެއެވެ.

5. ބީލަމުގެ ވެލިޑިޓީ

ހުށަހަޅާ ބީލަންތަކުގައި މަދުވެގެން 60 (ފަސްދޮޅަސް) ދުވަހުގެ ވެލިޑިޓީ މުއްދަތެއް އޮންނަންވާނެއެވެ.

6. ޝަރުތު ފުރިހަމަނުވާ ބީލަންތައް

- މި ބީލަމުގައި ބައިވެރިވެވޭނީ މިނިސްޓްރީ އޮފް އިކޮނޮމިކް ޑިވެލޮޕްމަންޓުގެ ކުދި އަދި މެދު ފަންތީގެ ވިޔަފާރީގެ ޑިޕާޓްމަންޓުގައި ރަޖިސްޓްރީ ކުރެވިފައިވާ ދިވެހި ވިޔަފާރިތަކަށެވެ.
- ބީލަމުގައި ބައިވެރިވާ ފަރާތަކީ ދައުލަތުގެ މާލިއްޔަތުގެ ޤަވާއިދުގެ 17 ވަނަ ބާބުގައިވާގޮތުގެ މަތިން ދައުލަތުގެ ބީލަމުގައި ބައިވެރިވުމުގެ ސަސްޕެންޝަން ކުރެވިފައިވާ ފަރާތަކަށް ވެގެންނުވާނެއެވެ.
- ބީލަން ހުށަހަޅާއިރު ތިރީގައި ބަޔާންކުރެވިފައިވާ ޑޮކިއުމަންޓްތައް ހުށަހަޅަންވާނެއެވެ. އަދި އެޑޮކިއުމަންޓްތައް ހުށަނާޅާ ފަރާތްތަކުގެ ބީލަން ބަލައިނުގަނެވޭނެއެވެ.

1. ފުރިހަމަ ކޮށްފައިވާ އަންދާސީ ހިސާބު ހުށަހަޅާ ފޯމު
2. ވިޔަފާރި ރަޖިސްޓްރޭޝަން ސެޓްފިކެޓްގެ ކޮޕީ
3. އެސް.އެމް.އީ ރަޖިސްޓްރޭޝަން ސެޓްފިކެޓްގެ ކޮޕީ / ކެޓަގަރީ ޕްރޮފައިލް
4. ޖީ.އެސް.ޓީ ރަޖިސްޓްރޭޝަން ސެޓްފިކެޓްގެ ކޮޕީ (ޖީ.އެސް.ޓީ ދައްކަންޖެހޭ ފަރާތްތަކުން)

5. ޓެކްސް ކްލިއަރެންސް ރިޕޯޓް (އިއުލާންކުރާ ތާރީޚުން ފެށިގެން ވޭތުވެދިޔަ 3 މަސްދުވަހުގެ ތެރޭގައި ނަގާފައިވާ ރިޕޯޓެއްކަން ވާންވާނެއެވެ.)

6. ކޯޓޭޝަން

7. <u>**ބީލަންތައް ދިރާސާކޮށް ފެންވަރު ބަލާނެ މިންގަނޑު (އިވެލުއޭޝަން ކްރައިޓީރިއާ)**</u>

- ހުށަހަޅާފައިވާ ބީލަންތައް އިވެލުއޭޓްކުރުމުގެ ކުރިން މިނިމަމް ރިކުއަރމަންޓްސްއަށް ނުފެތޭ ބީލަންތައް ބާތިލްކުރެވޭނެއެވެ.
- ބީލަންތަކަށް ޕޮއިންޓް ދެވޭނީ ތިރީގައިވާ ގޮތަށެވެ.

1. **އަގަށް 60 ޕޮއިންޓް؛** އެންމެ ކުޑަ އަގު ހުށަހަޅާ ފަރާތަކަށް އެންމެ މަތީ ޕޮއިންޓާއި އެނިސްބަތަށް ބަލައި ދެން ހުށަހަޅާ އަގުތަކަށް ޕޮއިންޓްދީގެންނެވެ.

2. **މުއްދަތަށް 20 ޕޮއިންޓް؛** އެންމެ ކުރު މުއްދަތެއް ހުށަހަޅާ ފަރާތަކަށް އެންމެ މަތީ ޕޮއިންޓާއި އެނިސްބަތަށް ބަލައި ދެން ހުށަހަޅާ ފަރާތްތަކަށް ޕޮއިންޓްދީގެންނެވެ.

3. **ފަންނީ ޤާބިލުކަމަށް 10 ޕޮއިންޓް؛** މިބައަށް ޕޮއިންޓް ދިނުމުގައި ބަލާނީ އިއުލާންކުރާތާ ތާރީޚުން ފެށިގެން ވޭތުވެދިޔަ 3 އަހަރު ދުވަހުގެ ތެރޭގައި ކުރެވިފައިވާ 'ގުޅުންހުރި 10 ޕްރޮޖެކްޓްގެ ރިކޯޑް' ޝީޓް ނުވަތަ އެޝީޓްގައި ހިމެނޭ މައުލޫމާތު ހިމަނައިގެން ބީލަން ހުށަހަޅާ ފަރާތުން ތައްޔާރުކޮށްފައިވާ ޝީޓްގައި 10 މަސައްކަތް ހިމަނާ އެމަސައްކަތްތަކުގެ ލިޔުން ހުށަހަޅާފައިވާނަމަ 10 ޕޮއިންޓްދީ އަދި އެއަށްވުރެ މަދުން ލިޔުން ހުށަހަޅާފައިވާނަމަ ހުށަހަޅާފައިވާ ލިޔުމުގެ އަދަދަށެވެ.

4. **މާލީ ޤާބިލުކަމަށް 10 ޕޮއިންޓް؛** މިބައަށް ޕޮއިންޓް ދިނުމުގައި ބަލާނީ އިއުލާންކުރާތާ ތާރީޚުން ފެށިގެން ވޭތުވެދިޔަ 3 އަހަރު ދުވަހުގެ ތެރޭގައި ކުރެވިފައިވާ މަސައްކަތްތަކުގެ ތެރެއިން ލިޔުން ހުށަހަޅާފައިވާ މަސައްކަތްތަކުގެ އަގަށެވެ. މިގޮތުން ލިޔުންތަކަށް ބަލައި ހިސާބުކޮށް ޕްރޮޖެކްޓްތަކުގެ އަގު ހުށަހަޅާފައިވާ ބީލަމުގެ އަގަށް ވުރެ ބޮޑުވާނަމަ 10 ޕޮއިންޓްދީ އަދި ހުށަހަޅާފައިވާ އަގާ އެއްވަރުގެ ނުވަތަ އެއަށްވުރެ ބޮޑު އަގެއްގެ މަސައްކަތެއް ކުރެވިފައިނުވާނަމަ މާލީ ޤާބިލުކަމަށް ޕޮއިންޓް އެއް ނުދެވޭނެއެވެ.

ކްރިމިނަލް ކޯޓު ، އަސްރުމާ ހިނގުން 23000 ، ފޯން: 3332633 ފެކްސް: 3344086
އީމެއިލް: info@criminalcourt.gov.mv ވެބްސައިޓް: www.criminalcourt.gov.mv

8. ބިޑް އެވޯރޑްކުރުމާއި ބިޑްކުރިންނަށް މައުލޫމާތުދިނުން

ބިޑް އެވޯރޑްކުރެވޭނީ ޤާނޫނީ އުސޫލުން އެންމެ ގިނަ ޕޮއިންޓް ލިބޭ ފަރާތަކަށެވެ. ބިޑް ކާމިޔާބުވާ ފަރާތާއި ކޮންޓްރެކްޓް ހަވާލުކުރުމުގެ ކުރިން ބިޑުގައި ބައިވެރިވި ހުރިހާ ފަރާތްތަކަށް ބިޑް ކާމިޔާބުނުވި ކޮންފަރާތެއް ކަމާއި އަދި ކާމިޔާބުވާ ފަރާތަކީ ކޮބައިކަން އެންގޭނެއެވެ. މިގޮތުން އަންގާ އެންގުމާއި ވިދިގެން ބިޑާ ގުޅުންހުރި މައްސަލައެއް ވާނަމަ އެކަމެއް ހުށަހެޅުމަށް ބިޑުގައި ބައިވެރިވި ފަރާތްތަކަށް 3 (ތިނެއް) ދުވަހުގެ މުއްދަތެއް ދެވޭނެއެވެ. ބިޑް ކާމިޔާބުކުރި ފަރާތާއެކު ކޮންޓްރެކްޓްގައި ސޮއިކުރާނީ، ބިޑް ކާމިޔާބުނުވި ފަރާތްތަކުން ހުށަހަޅާ މައްސަލައެއް ބަލައި، ކުރާ ސުވާލުތަކަށް ޖަވާބު ދިނުމަށްފަހުގައެވެ. ބިޑް އެވޯރޑްކުރާ ފަރާތަށް އެކަން ލިޔުން އެވޯޑިންގ ނޯޓިހަކުން އެންގޭނެއެވެ.

9. ކޮންޓްރެކްޓް ހަވާލުކުރުން

މި މަސައްކަތް ހަވާލުކުރުމުގެ ގޮތުން ކޮންޓްރެކްޓްގައި ސޮއި ކުރުމަށް ކްރިމިނަލް ކޯޓުން މަސައްކަތް ހަވާލުވާފަރާތުން ހާޒިރުވާ، ދުވަހާއި ގަޑި ހާޒިރުގައި އެއްބަސްވުމުގައި ބަޔާންކޮށްފައިވާ ގޮތަށް ދީ ކޯޓުގައެވެ. ދުވަހާއި ގަޑީގައި ފަރާތް އެއްބަސްވުމުގައި ސޮއިކުރުމަށް ހާޒިރުނުވެއްޖެނަމަ، ބިޑް ހުށަހަޅާ ފަރާތަށް ލިބިގެން ނުވާނެއެވެ.

10. އެޑްވާންސް ފައިސާ ދިނުން

ޕްރޮޖެކްޓުގެ ޖުމުލަ އަގު -/250,000 (ދެލައްކަ ފަންސާސްހާސް) ރުފިޔާ ނުވަތަ އެއަށްވުރެ ބޮޑުވާނަމަ، މަސައްކަތް ހަވާލުވާފަރާތުން މަސައްކަތް ހަވާލުވާތާ 45 (ސާޅީސް ފަހެއް) ދުވަހުގެ ތެރޭގައި އެޑްވާންސްގެ ގޮތުގައި ފައިސާ ދިނުމަށް އެދިއްޖެނަމަ، ކޮންޓްރެކްޓުގެ ޖުމުލަ އަގުގެ 15% (ފަނަރަ އިންސައްތަ) ދޫކުރެވޭނެއެވެ. އަދި މިފަދައިން އެޑްވާންސް ފައިސާ ދޫކުރެވޭނީ އެންމެ ފަހަރަކުއެވެ.

11. ލިކުއިޑޭޓެޑް ޑެމޭޖަސްގެ ގޮތުގައި ފައިސާ ކެނޑުން

އެއްބަސްވުމުގައި ކަނޑައަޅާފައިވާ މުއްދަތުގައި މަސައްކަތް ނުނިމި ފަސްވާފަސްވުމުން ތިރީގައިވާ ގޮތުގެ މަތިން ޖޫރިމަނާގެ ގޮތުގައި ފައިސާ ކެނޑޭނެއެވެ.

CP*0·005*LD = ޖޫރިމަނާގެ ގޮތުގައި އިތުރުވާ ދުވަސްތަކަށް ކެނޑޭނެ އަދަދު.

CP = (ކޮންޓްރެކްޓް ޕްރައިސް): ކޮންޓްރެކްޓުގެ ޖުމުލަ އަގު.

LD = (ލޭޓް ޑިއުރޭޝަން): ކޮންޓްރެކްޓުގެ މުއްދަތަށްވުރެ އިތުރުވާ ދުވަސްތައް.

މުއްދަތަށް މަސައްކަތް ނުނިމިގެން ޖުރިމަނާގެ ގޮތުގައި ދައްކަންޖެހޭ އަދަދު މުޅި މަސައްކަތުގެ ޖުމްލަ އަގުގެ 15 އިންސައްތަ އަށްވުރެ އިތުރު ވެއްޖެނަމަ، އެހިސާބުން އެއްބަސްވުން ނިމުމަކަށް ގެނެވޭނެއެވެ.

12. މަސައްކަތް ފުރިހަމަކުރިކަމުގެ ލިޔުން ދިނުމާއި މަސައްކަތުގެ އަގު ދިނުން

ކޮންޓްރެކްޓް ކުރެވޭ މަސައްކަތް ނިމުމުން، ކޯޓުގެ ރިކުއަރމަންޓާއި މަސައްކަތާ ހަވާލުވިފަރާތުން ހުށަހަޅާފައިވާ ކޯޓޭޝަނާއި އަދި ދެފަރާތުން އެއްބަސްވެފައިވާ ފެންވަރަށް މަސައްކަތް ފުރިހަމަކޮށްފައިވާތޯ ބަލާ ޗެކްކުރުމަށްފަހު މަސައްކަތް ފުރިހަމަކުރިކަމުގެ ލިޔުން ހަވާލުކުރެވޭނެއެވެ. މަސައްކަތަށް އަގުދައްކާނީ މަސައްކަތްނިމުމުން މަސައްކަތް ފުރިހަމަ ކުރިކަމަށް މަސައްކަތް ހަވާލުކުރިފަރާތުން ލިޔުން ދިނުމުން، މަސައްކަތާ ހަވާލުވިފަރާތުން އިންވޮއިސް ހުށަހެޅުމުންނެވެ.

13. ބިޑާއެކު ހުށަހަޅަންޖެހޭ ތަކެތި:

1. ފުރިހަމަ ކޮށްފައިވާ އަންދާސީ ހިސާބު ހުށަހަޅާ ފޯމު
2. ވިޔަފާރި ރަޖިސްޓްރޭޝަން ސެޓްފިކެޓްގެ ކޮޕީ
3. އެސް.އެމް.އީ ރަޖިސްޓްރޭޝަން ސެޓްފިކެޓްގެ ކޮޕީ / ކުންފުނީގެ ޕްރޮފައިލް
4. ޖީ.އެސް.ޓީ ރަޖިސްޓްރޭޝަން ސެޓްފިކެޓްގެ ކޮޕީ (ޖީ.އެސް.ޓީ ދައްކަންޖެހޭ ފަރާތްތަކަށް)
5. ޓެކްސް ކްލިއަރެންސް ރިޕޯޓް (އިއުލާންކުރާ ތާރީޚުން ފެށިގެން ފާއިތުވި 3މަސްދުވަހުގެ ތެރޭގައި ނަގާފައިވާ ރިޕޯޓަކަށް ވާންވާނެއެވެ.)
6. ކޯޓޭޝަން
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8. ކުރިން ކޮށްފައިވާ މަސައްކަތުގެ ރެފަރެންސް ލެޓަރ ނުވަތަ ވޯކް ކޮމްޕްލީޝަން ނޯޓް. (ގިނަވެގެން 10 މަސައްކަތުގެ ރެފަރެންސް ލިޔުން)

Specifications for 1x Enterprise Backup Solution

TERMS OF REFERENCE (TOR)

Design, Supply, Installation & Commissioning of an Enterprise Backup Solution

Procurement Modality: Design & Build (D&B) | Configuration: 150 TB Usable (RAID 5)

1. Introduction & Background

The purpose of this Terms of Reference (TOR) is to define the technical and functional requirements for the design, supply, installation, configuration, testing and commissioning of an enterprise-grade Backup Solution . The solution is delivered on a Design & Build (D&B) basis, whereby the Bidder is fully responsible for the detailed design, integration and turnkey delivery of a working backup environment that meets or exceeds the minimum specifications stated herein.

The scope is organised into two distinct technical segments — (A) Backup Storage and (B) Backup Server — supported by common services (backup software, integration, training, installation and warranty). All inter-component data paths must be delivered over 10 Gigabit Ethernet (10G) as detailed in Section 5.

2. Objectives

- Provide a reliable, high-capacity, scalable backup target offering 150 TB usable capacity after RAID 5 plus hot-spare protection.
- Deploy a dedicated backup application server to host the backup software and orchestrate backup, cloning and recovery jobs.
- Ensure resilient, high-throughput 10G connectivity between the backup storage, the backup server and the existing infrastructure.
- Optimise storage efficiency through NVMe SSD performance caching and data deduplication.
- Deliver a fully integrated, tested and documented turnkey solution with knowledge transfer to the in-house IT team.

3. Scope of Work (Design & Build)

- Detailed solution design, including capacity, RAID layout, network/connectivity design and rack elevation.
- Supply of all hardware, software, licenses, cables (including 10G transceivers/DACs/fibre) and accessories required for a complete solution.
- Physical installation, racking, cabling and configuration of the backup storage and backup server.
- Configuration of RAID 5 + hot-spare, NVMe SSD cache, deduplication, storage pools, shares/LUNs and backup policies.
- **Integration with the existing network infrastructure over 10G uplinks.**
- End-to-end functional testing, performance validation and acceptance testing (UAT).
- On-the-job training/knowledge transfer for the IT team and handover of as-built documentation.

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އީމެއިލް: info@criminalcourt.gov.mv ވެބްސައިޓް: www.criminalcourt.gov.mv

4. Technical Requirements

4.A Segment A — Backup Storage Requirement

Sl.	Parameter	Minimum Required Specification
1	**Storage Type**	Unified Storage (File & Block) appliance with 150 TB usable capacity after RAID 5 + hot-spare configuration.
2	**Storage Server / Roles**	Should support NAS application server (10GbE NIC), iSCSI storage (10GbE NIC) and Fibre Channel storage (16Gb).
3	**Form Factor / Mounting**	2U–4U, 19” rack mounted.
4	**Processor**	64-bit multi-core enterprise-grade processor per controller, sized to deliver the required NAS/iSCSI/FC throughput with deduplication and NVMe caching enabled.
5	**Controllers per Appliance**	2 (dual active controllers) for high availability.
6	**Network Connectivity per Controller**	Minimum 4 x 10G Ethernet (SFP+) ports and 2 x 16G FC ports per controller. The 10G ports are mandatory for host/server connectivity (see Section 5).
7	**Scalability**	Solution must be scalable — capacity must be expandable well beyond the initial 150 TB by adding drives and expansion enclosures (JBODs) without forklift replacement of the controllers. Must support a minimum of 400+ HDDs in a single stack.
8	**NVMe SSD Performance Cache**	Must provide a minimum of 4 x NVMe SSD slots dedicated to performance caching (read/write cache acceleration / auto-tiering).
9	**Data Deduplication**	Solution must support and have data deduplication (and compression) enabled to maximise effective backup capacity and storage efficiency.
10	**Storage Expansion Port per Controller**	2 x 12Gb SAS Mini-SAS (SFF-8644).
11	**Supported Network Protocols**	SMB/CIFS, NFS, FTP, WebDAV, iSCSI, etc.
12	**Drive Support & Type**	3.5" drives, 18 TB recommended (16 TB minimum) per drive; Enterprise-Class NL-SAS HDD, 7200 RPM or higher; supports mix of SAS and SATA drives in the same enclosure. Indicative sizing to achieve 150 TB usable (RAID 5 + hot-spare): 12 x 18 TB drives installed (10 data + 1 parity + 1 hot-spare), yielding approximately 163 TiB / 180 TB raw data capacity before filesystem overhead, plus 2 cold maintenance spares — 14 x 18 TB drives supplied in total.
13	**Cache / Memory**	32 GB per controller, upgradable to 64 GB per controller.
14	**Proposed Storage Capacity**	150 TB usable capacity after RAID 5 + hot-spare configuration. For clarity, capacity figures are expressed in decimal terabytes (TB, 10^{12} bytes); usable capacity shall be measured after RAID, hot-spare and filesystem overhead.
15	**Management Port per Controller**	1 x RJ-45 1GbE Ethernet and 1 x Serial port.
16	**RAID Configuration**	Support for RAID 0, 1, 5, 6, 10, 50, 60. Production

		configuration: RAID 5. Note: RAID 6 (dual parity) is recommended for consideration given the long rebuild windows of large-capacity (18 TB) drives; if RAID 5 is retained, the online hot-spare is mandatory.
17	**Spare Disk**	Should include 1 hot-spare disk and two (2) cold spare disks.
18	**General Features**	Proactive data migration to a healthy drive on predicted failure; bad-sector remapping and SMART error handling; asynchronous & scheduled backup and cloning of shares/volumes; Write Once Read Many (WORM); cloud backup support; advanced battery flash-backup design.
19	**Encryption**	Self-Encrypting Drive (SED) pool-level protection.
20	**Virtualization**	Windows: Hyper-V, Storage Spaces; VMware vSphere 7.0/8.0 certified, VAAI, SRM, VASA/vVols; Citrix Ready.
21	**Supported OS**	Windows Server 2016 or higher, macOS (current releases), Linux (RHEL 7+ and SLES 12+).
22	**Power Supply**	Redundant, hot-swappable PSUs; 80 PLUS compliant (Green).
23	**Warranty**	3 Years Parts & Service Warranty, 24/7 On-Site.

4.B Segment B — Backup Server Requirement

Sl.	Parameter	Minimum Required Specification
1	**Server Type**	Rack-mount server (1U/2U), 19" rack mounted.
2	**Processor**	Single Intel® Xeon® 8-Core processor or higher.
3	**Memory**	32 GB RAM (expandable).
4	**Boot / OS Storage**	2 x 480 GB Enterprise-class datacenter SSD in RAID 1 (mirrored) for OS resilience. Enterprise grade mandatory: Power-Loss Protection (PLP), endurance >= 1 DWPD over 5 years, SATA 6Gb/s or SAS 12Gb/s (dual-port SAS preferred), MTBF >= 2M hours, UBER <= 1 in 10^17.
5	**Network Connectivity**	Minimum 2 x 10G Ethernet (SFP+) ports — mandatory for backup data path to storage and uplink to infrastructure (see Section 5). Plus 1 x 1GbE management port.
6	**Power Supply**	Dual / redundant hot-swappable PSU.
7	**Operating System**	Windows Server 2022 Standard (licensed; per Microsoft per-core licensing rules, minimum 16-core license per server).
8	**Role**	Dedicated host for the backup software / backup orchestration.
9	**Warranty**	3 Years Parts & Service Warranty, 24/7 On-Site.

5. Connectivity & Integration Requirements (10G)

All primary data paths in the solution must be delivered over 10 Gigabit Ethernet (10G). The Bidder must supply all required 10G NICs/ports, transceivers (SFP+), DAC/fibre cables and switch ports needed to satisfy the following connectivity requirements:

Sl.	Parameter	Minimum Required Specification
1	**Backup Server ↔ Backup Storage**	Dedicated 10G connectivity between the Backup Server and the Backup Storage for the backup data path. Minimum 2 x 10G links (redundant) using iSCSI/NFS/SMB over 10GbE.
2	**Backup Server ↔ Infrastructure (LAN)**	The Backup Server must connect to the existing infrastructure / production LAN over 10G. Minimum 2 x 10G uplinks (redundant) to the core/distribution switch.
3	**Backup Storage ↔ Infrastructure**	Backup Storage controllers must each provide 10G host ports to allow direct 10G access from infrastructure hosts where required (in addition to the server data path).
4	**Redundancy**	All 10G connections shall be provisioned in redundant pairs (link aggregation / MPIO) to eliminate single points of failure.
5	**Cabling & Optics**	Bidder to supply all 10G SFP+ transceivers, DAC and/or OM3/OM4 fibre patch cables of appropriate length for a complete, working 10G fabric — minimum ten (10) x 10G SFP+ transceivers/DAC across the solution, with additional units as required.

Logical connectivity summary: Infrastructure / LAN —(10G)— Backup Server —(10G)— Backup Storage. All segments interconnected at 10 Gigabit Ethernet with redundant links.

6. Software, Training & Services

Sl.	Parameter	Minimum Required Specification
1	**Backup Software**	No separate backup software license is required under this procurement. The client will use its existing enterprise backup software. The Bidder shall ensure the supplied storage and server are fully compatible with the client's existing backup software and shall perform its configuration/integration for the in-scope workloads.
2	**Training**	On-the-job training / knowledge transfer for the in-house IT team covering operation, monitoring, backup/restore and basic troubleshooting.
3	**Installation & Setup**	Complete installation, configuration, integration, testing and commissioning of the full solution.
4	**Documentation**	As-built documentation, network/connectivity diagrams, configuration sheets and operational runbook.

7. Deliverables

- Detailed design document and Bill of Materials (BoM).
- Fully installed, configured and commissioned Backup Storage (Segment A) with NVMe cache and deduplication enabled.
- Fully installed, configured and commissioned Backup Server (Segment B).
- Configured 10G connectivity fabric between storage, server and infrastructure.
- Existing backup software configured and integrated, with operational backup policies (no new backup software license is procured under this TOR).

- Acceptance test report (UAT) signed off by the client.
- Training completion and as-built documentation handover.

8. Warranty & Support

All hardware components (Backup Storage and Backup Server) shall carry a minimum 3 Years Parts & Service Warranty with 24/7 On-Site support. No backup software license is procured under this TOR as the client will use its existing backup software. The Bidder shall provide a single point of contact for warranty and support escalation.

9. Bidder Compliance & Notes

- The Bidder must provide a clause-by-clause compliance statement against every requirement in Sections 4, 5 and 6.
- All specifications are minimum requirements; higher specifications are acceptable.
- The Bidder is responsible for sizing the number of drives to achieve 150 TB usable after RAID 5 + hot-spare, with headroom for future scalability.
- Make, model and datasheets of all proposed equipment must be submitted with the bid.

10. Backup Scope & Capacity Feasibility

Backup workload (in scope): The solution is required to back up three (3) virtual machines (VMs) using the client's existing backup software. One (1) of these VMs holds approximately 60 TB of data; the remaining two (2) VMs are comparatively small.
Capacity feasibility: The proposed 150 TB usable backup repository (RAID 5 + hot-spare) is sufficient for this workload. Indicative sizing:

- Largest VM source data: ~60 TB; two additional VMs: assumed modest (e.g. up to ~10–20 TB combined).
- A first full backup of ~60–80 TB source typically compresses to ~30–48 TB on disk (backup software compression/deduplication, ~40–50% reduction, workload-dependent).
- 150 TB usable therefore comfortably accommodates a full backup plus multiple restore points / retention using forever-forward or synthetic-full incremental backup chains.
- Recommended: the Bidder shall propose the optimal combination of storage-level deduplication/compression and backup software compression settings (enabling both concurrently may yield limited additional savings); retention and restore-point count to be confirmed with the client during design.

Conclusion: Backing up the three VMs (including the single 60 TB VM) on a 150 TB usable repository is feasible. The Bidder shall confirm final retention/restore-point sizing with the client during design.

11. Existing Server Network Upgrade (10G NIC)

The client's existing production server shall be upgraded with 10 Gigabit Ethernet connectivity to integrate with the backup solution. The Bidder shall supply and install one (1) dual-port 10G network interface card (providing 2 x 10G interfaces) with virtualization support, and shall provide all required 10G patch cords and transceivers for a complete installation.
Existing server details:

- Machine name: CRC-SERVER-NEW
- Manufacturer / Model: HPE ProLiant DL380 Gen11
- Processor: Intel® Xeon® Silver 4510 (48 CPUs), ~2.4 GHz
- Memory: 64 GB RAM

- Operating System: Windows Server 2022 Standard (64-bit, Build 20348)
- Role: Virtualization host running Microsoft Hyper-V (hosting the in-scope VMs).

Sl.	Parameter	Minimum Required Specification
1	**Network Card Quantity**	One (1) add-in 10G Network Interface Card (NIC) to be installed in the existing HPE ProLiant DL380 Gen11 server.
2	**Ports / Interfaces**	Dual-port — 2 x 10G Ethernet (SFP+) interfaces on the single card.
3	**Virtualization Support**	The existing server runs Microsoft Hyper-V. The NIC must support hardware virtualization offload — SR-IOV, VMQ/VMMQ and NIC partitioning — and be fully compatible with the Hyper-V virtual switch for use by the hosted VMs.
4	**Transceivers**	10G SFP+ transceivers (or DAC) to be provided as required for each 10G port.
5	**Patch Cords**	All 10G patch cords (OM3/OM4 fibre and/or DAC/Cat6A as applicable) to be provided as required for a complete installation.
6	**Installation**	Bidder to physically install the NIC, install drivers, configure 10G connectivity to the backup storage/server and infrastructure, and validate link/throughput.
7	**Offload Features**	Support for TCP/IP offload, RSS, jumbo frames (9K MTU) and iSCSI for optimal backup throughput.

Note: All 10G patch cords and transceivers required across the entire solution — including the backup storage, backup server and the existing server upgrade — shall be supplied by the Bidder as part of the installation. No connectivity item shall be left to the client to procure.

12. Hardware Equipment List (Bill of Materials)

The following table lists the minimum hardware equipment and accessories the Bidder shall supply, install and commission for a complete, working turnkey solution. Quantities are indicative minimums; the Bidder is responsible for supplying all items required for a fully operational solution, including any item not explicitly listed but necessary for completeness. The Bidder shall complete the "Make / Model Offered" column for each line item.

Sl.	Hardware Item	Specification	Qty	Make / Model Offered
1	Backup Storage Appliance	Unified (File & Block) dual-controller appliance, 150 TB usable after RAID 5 + hot-spare, 2U–4U rack-mount, NVMe SSD cache, deduplication enabled.	1	
2	Storage Controllers	Dual active-active	2	

		controllers (HA), 32 GB cache per controller (upgradable to 64 GB).		
3	NL-SAS Hard Drives	Enterprise-class 3.5" NL-SAS, 18 TB recommended (16 TB minimum), 7200 RPM; sized to achieve 150 TB usable after RAID 5 + hot-spare. Recommended: 11 primary drives (10 data + 1 parity); with the hot-spare and cold spares below this totals 14 x 18 TB.	As required	
4	Hot-Spare Drive	Online hot-spare disk for the storage array.	1	
5	Cold-Spare Drives	Spare drives (same type/capacity) for maintenance.	2	
6	NVMe SSD Cache Modules	NVMe SSDs for read/write performance caching / auto-tiering (min. 4 slots).	Min. 4	
7	Backup Server	Rack-mount server (1U/2U), single Intel Xeon 8-core or higher, 32 GB RAM (expandable), dual redundant PSU.	1	
8	Server OS	2 x 480 GB	2	

	Boot Drives	Enterprise-class datacenter SSD (Power-Loss Protection, >= 1 DWPD) configured in RAID 1 for OS resilience.		
9	Existing Server 10G NIC	Dual-port 10G Ethernet (SFP+) add-in NIC with SR-IOV / VMQ / NIC partitioning for the HPE ProLiant DL380 Gen11 (Hyper-V).	1	
10	10G SFP+ Transceivers / DAC	SFP+ optical transceivers and/or DAC cables for all 10G ports (storage, server and existing server upgrade). Minimum ten (10) supplied; additional units as required for a complete fabric.	Min. 10	
11	16G FC Transceivers (if used)	16Gb Fibre Channel optics for storage controller FC ports, where the FC path is utilised.	As required	
12	Fibre / Patch Cables	OM3/OM4 fibre and/or Cat6A / DAC patch cords of appropriate length for a complete 10G fabric.	As required	
13	SAS Expansion	12Gb Mini-SAS (SFF-	As required	

	Cables	8644) cables for future JBOD expansion readiness.		
14	Mounting & Rack Accessories	Rail kits, cable management and rack mounting hardware for all rack-mounted equipment.	As required	

13. Technical Compliance Checklist (Vendor Form)

The Bidder shall complete the following technical compliance form on a clause-by-clause basis. For each requirement, indicate "Comply" (Yes / No), state the actual specification of the offered product, and provide any remarks or cross-reference to the supporting datasheet page. Non-compliance or deviations must be clearly stated. Incomplete forms may render the bid non-responsive.

Sl.	**Requirement**	**Comply (Yes/No)**	**Offered Specification**	**Remarks / Datasheet Ref.**
A. Backup Storage (Segment A)				
1	Unified Storage (File & Block) appliance, 150 TB usable after RAID 5 + hot-spare.			
2	Supports NAS (10GbE), iSCSI (10GbE) and Fibre Channel (16Gb) roles.			
3	2U–4U, 19" rack-mountable form factor.			
4	Dual active controllers (2) for high availability.			
5	Min. 4 x 10G (SFP+) + 2 x 16G FC ports per controller.			
6	Scalable to 400+ HDDs via expansion enclosures (JBOD) without controller replacement.			
7	Min. 4 x NVMe SSD slots for performance cache / auto-tiering.			
8	Data deduplication and compression supported and enabled.			
9	2 x 12Gb SAS Mini-SAS (SFF-8644) expansion ports per controller.			
10	Protocols: SMB/CIFS, NFS, FTP, WebDAV, iSCSI, etc.			
11	3.5" drives, 16 TB+ Enterprise NL-SAS, 7200 RPM; mixed SAS/SATA support.			

12	32 GB cache per controller, upgradable to 64 GB.			
13	RAID 0,1,5,6,10,50,60 supported; production RAID 5.			
14	1 hot-spare + 2 cold-spare disks included.			
15	Self-Encrypting Drive (SED) pool-level protection.			
16	Virtualization: Hyper-V, Storage Spaces, VMware vSphere 7.0/8.0/VAAI/SRM/VASA/vVols, Citrix Ready.			
17	Redundant, hot-swappable, 80 PLUS PSUs.			
18	3 Years Parts & Service Warranty, 24/7 On-Site.			
19	1 x RJ-45 1GbE management port and 1 x serial port per controller.			
20	General features: proactive data migration on predicted drive failure, bad-sector remapping/SMART handling, scheduled backup/cloning of shares, WORM, cloud backup support, battery/flash-backed cache.			
21	Supported client/host OS: Windows Server 2016+, macOS, Linux (RHEL 7+ / SLES 12+).			
B. Backup Server (Segment B)				
1	Rack-mount server (1U/2U), 19" rack-mountable.			
2	Single Intel Xeon 8-core processor or higher.			
3	32 GB RAM (expandable).			
4	2 x 480 GB Enterprise-class SSD (PLP, RAID 1) for OS.			
5	Min. 2 x 10G (SFP+) + 1 x 1GbE management port.			
6	Dual / redundant hot-swappable PSU.			
7	Windows Server 2022 Standard (licensed; per Microsoft per-core licensing rules, minimum 16-core license per server).			
8	3 Years Parts & Service Warranty, 24/7 On-Site.			
C. Connectivity & Integration (10G)				
1	Min. 2 x 10G redundant links between Backup Server and Backup Storage.			
2	Min. 2 x 10G redundant uplinks			

	between Backup Server and infrastructure/LAN.			
3	Storage controllers each provide 10G host ports for infrastructure access.			
4	All 10G links provisioned in redundant pairs (LACP / MPIO).			
5	All SFP+ transceivers, DAC and/or OM3/OM4 fibre supplied for a complete fabric (minimum 10 x 10G SFP+ transceivers/DAC).			
D. Existing Server 10G NIC Upgrade				
1	One (1) dual-port 10G (SFP+) add-in NIC for HPE ProLiant DL380 Gen11.			
2	SR-IOV, VMQ/VMMQ and NIC partitioning; Hyper-V virtual switch compatible.			
3	10G SFP+ transceivers / DAC provided for each port.			
4	All 10G patch cords (OM3/OM4 fibre and/or DAC/Cat6A) provided.			
5	Bidder installs NIC, drivers, configures and validates link/throughput.			
6	TCP/IP offload, RSS, jumbo frames (9K MTU) and iSCSI supported.			
E. Software, Services & Documentation				
1	Full compatibility and integration with the client's existing backup software.			
2	On-the-job training / knowledge transfer for the IT team.			
3	Complete installation, configuration, testing and commissioning.			
4	As-built documentation, diagrams, configuration sheets and runbook.			

Bidder Declaration: We confirm that the information provided in this technical compliance form is accurate and that the offered equipment meets or exceeds the stated minimum requirements except where a deviation is explicitly noted above.

Authorised Signatory: ______________________________

Name & Designation: ______________________________

Company / Bidder Name: ______________________________

Date & Official Stamp: ______________________________

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